

**Flood Control Project Maintenance
Levee Inspections**

Fall 2018 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0001	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Maintenance Area 0001	A	16.76						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.18%	0.02			
Trim / Thin Trees	0.01		0.01	0.06%				
Encroachments	0.02		0.02	0.12%	1.89	1.18		
Animal Control	0.03		0.03	0.18%				
Slope Stability	0.02		0.02	0.12%				
Erosion / Bank Caving	0.01		0.01	0.06%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.28	0.06		
DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	0.12	0.00	0.12	0.72%	2.19	1.24	0.00	0.00

Unit No. 01 Sacramento River RB	Overall Unit Rating	Total Unit Miles						
MA0001	A	16.76						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.03		0.03	0.18%	0.02			
Trim / Thin Trees	0.01		0.01	0.06%				
Encroachments	0.02		0.02	0.12%	1.89	1.18		
Animal Control	0.03		0.03	0.18%				
Slope Stability	0.02		0.02	0.12%				
Erosion / Bank Caving	0.01		0.01	0.06%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.28	0.06		
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.12	0.00	0.12	0.72%	2.19	1.24	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0001**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2018 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0001

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	16.76
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/6/2018 - 3/6/2018		10/4/2018 - 10/4/2018	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2016_19				
Comment Code					
Inspector Comment					
The LMA has emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	28
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2013_28				
Comment Code					
Inspector Comment					
The LMA has O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	29
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0001_01_s_2013_29				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2016.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	0.01	Rating **	N	Issue No.	92
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.214000 °	39.214000 °
				-122.001077 °	-122.001077 °
DWR ID	DWR_MA0001_01_f _ 2016_92				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.04	Rating **	U	Issue No.	2
LM End	0.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.213988 °	39.215198 °
				-122.001537 °	-122.004775 °
DWR ID	DWR_MA0001_01_s_2012_2				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_2_20180905_00001.jpg



View of the building along the landside toe.

LM Start	0.07	Rating **	M	Issue No.	93
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.214162 °	39.214162 °
				-122.002158 °	-122.002158 °
DWR ID	DWR_MA0001_01_f_2016_93				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_93_20180905_00026.jpg



View of a tree limb along the waterside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	0.09	Rating **	M	Issue No.	94
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.214217 °	39.214217 °
				-122.002378 °	-122.002378 °
DWR ID	DWR_MA0001_01_f_2016_94				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Repair the erosion along the damaged slope.					

Photo 1 of 1 : FA_2018_MA0001_297_94_20180905_00027.jpg



View of the slope instability along the landside slope.

LM Start	0.25	Rating **	N	Issue No.	97
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215343 °	39.215343 °
				-122.005100 °	-122.005100 °
DWR ID	DWR_MA0001_01_f_2016_97				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.38	Rating **	M	Issue No.	98
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.215878 °	39.215878 °
				-122.007278 °	-122.007278 °
DWR ID	DWR_MA0001_01_f_2016_98				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_98_20180905_00028.jpg



View of the slope instability along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	0.42	Rating **	M	Issue No.	99
LM End	0.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.215863 °	39.215863 °
				-122.008015 °	-122.008015 °
DWR ID	DWR_MA0001_01_f_2016_99				
Comment Code					
EQ : Equipment					
Inspector Comment					
Move the equipment and container at least 10' away from the landside toe.					

Photo 1 of 1 : FA_2018_MA0001_297_99_20180905_00029.jpg



View of the equipment and shipping container along the landside toe.

LM Start	0.53	Rating **	N	Issue No.	101
LM End	0.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.215808 °	39.215808 °
				-122.009995 °	-122.009995 °
DWR ID	DWR_MA0001_01_f_2017_101				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.67	Rating **	U	Issue No.	7
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.216533 °	39.216680 °
				-122.012512 °	-122.012907 °
DWR ID	DWR_MA0001_01_s_2012_7				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_7_20180905_00005.jpg



View of the buildings along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	1.17	Rating **	M	Issue No.	639	
LM End	1.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.221685 °	39.221685 °	
				-122.015720 °	-122.015720 °	
DWR ID	25564					
Comment Code						
Inspector Comment						
FS_ID:53078 DS_ID:25564 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Pipe installed according to emergency work authorization dated 07/31/2017 under existing permit No. 9481. Owner Roberts Ditch Company needs to submit as-builts. (O.Yakimov - DWR) FIELD_STRUCT_DESC: 36-inch smooth steel epoxy coated interior/exterior irrigation pipe with positive closure device on the water side of the levee. Crossing penetrates the levee at an angle. Other appurtenances located at this crossing include 2 slant pumps connected to a concrete distribution box, and shed structure located 100 feet northeast from levee crossing. Flow is carried from concrete distribution box to slide gate via concrete lined ditch. pipe is open to an irrigation ditch on LS. (Installed according to the board emergency work authorization dated 07/31/2017 under existing permit No. 9481. Owner Roberts Ditch Company). Replaces pipe with DSID 16431. FS Date: 10/1/2018 10:51:57 AM						

Photo 1 of 3 : UCIP_FA_2018_53078_78328.jpg



View of levee crown at crossing.

LM Start	1.17	Rating **	M	Issue No.	639 (cont)
LM End	1.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_53078_78329.jpg



View of pipe end in irrigation ditch on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	1.17	Rating **	M	Issue No.	639 (cont)	
LM End	1.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.221685 °	39.221685 °	
				-122.015720 °	-122.015720 °	
DWR ID	25564					
Comment Code						
Inspector Comment						
FS_ID:53078 DS_ID:25564 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Pipe installed according to emergency work authorization dated 07/31/2017 under existing permit No. 9481. Owner Roberts Ditch Company needs to submit as-builts. (O.Yakimov - DWR) FIELD_STRUCT_DESC: 36-inch smooth steel epoxy coated interior/exterior irrigation pipe with positive closure device on the water side of the levee. Crossing penetrates the levee at an angle. Other appurtenances located at this crossing include 2 slant pumps connected to a concrete distribution box, and shed structure located 100 feet northeast from levee crossing. Flow is carried from concrete distribution box to slide gate via concrete lined ditch. pipe is open to an irrigation ditch on LS. (Installed according to the board emergency work authorization dated 07/31/2017 under existing permit No. 9481. Owner Roberts Ditch Company). Replaces pipe with DSID 16431. FS Date: 10/1/2018 10:51:57 AM						

Photo 3 of 3 : UCIP_FA_2018_53078_78330.jpg



View of LS levee slope and irrigation ditch at levee toe.

LM Start	1.20	Rating **	U	Issue No.	6
LM End	1.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.222119 °	39.224063 °
				-122.015747 °	-122.016080 °
DWR ID	DWR_MA0001_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_6_20180905_00004.jpg



View of an ag ditch along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	1.87	Rating **	M	Issue No.	68
LM End	1.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.231195 °	39.231195 °
				-122.015460 °	-122.015460 °
DWR ID	DWR_MA0001_01_f_2018_68				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the landside slope.					

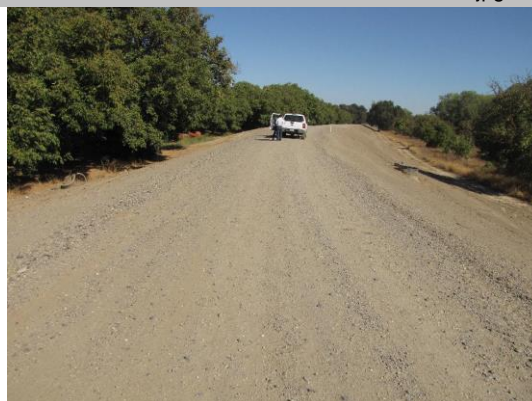
Photo 1 of 1 : FA_2018_MA0001_297_68_20181005_00150.jpg



View of the rodent holes along the landside slope.

LM Start	1.92	Rating **	M	Issue No.	640	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.231866 °	39.231866 °	
				-122.015442 °	-122.015442 °	
DWR ID	16430					
Comment Code						
Inspector Comment						
FS_ID:51852 DS_ID:16430 EP_NO: 9487 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 WS end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 Ws end is till partially plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)]. FS Date: 5/19/2017 1:20:29 PM						

Photo 1 of 3 : UCIP_FA_2018_51852_70064.jpg



Overview of levee crown and slopes looking upstream towards crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	640 (cont)	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.231866 °	39.231866 °	
				-122.015442 °	-122.015442 °	
DWR ID	16430					

Comment Code

Inspector Comment

FS_ID:51852
DS_ID:16430
EP_NO: 9487
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 WS end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 WS end is still partially plugged. (DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
FS Date: 5/19/2017 1:20:29 PM

LM Start	1.92	Rating **	M	Issue No.	640 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_51852_70063.jpg



View of WS looking upstream at CMP riser on slope.

Photo 3 of 3 : UCIP_FA_2018_51852_70062.jpg



View of LS looking upstream at crossing.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	641
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.231880 °	39.231880 °	
			-122.015432 °	-122.015432 °	
DWR ID	17565				

Comment Code

Inspector Comment

FS_ID:51853
DS_ID:17565
EP_NO: 9487
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Ws end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
FS Date: 5/19/2017 1:21:31 PM

LM Start	1.92	Rating **	M	Issue No.	641 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51853_70071.jpg



View of levee crown and slopes looking upstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51853_70074.jpg



View of CMP risers located on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	1.92	Rating **	M	Issue No.	641 (cont)
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.231880 °	39.231880 °
				-122.015432 °	-122.015432 °
DWR ID	17565				

Comment Code

Inspector Comment

FS_ID:51853
DS_ID:17565
EP_NO: 9487
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Ws end still partially plugged. (DWR Sutter Yard- A Freitag)10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- A Freitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.
FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (36-inch pipe [HLM 1.97] authorized under Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].
FS Date: 5/19/2017 1:21:31 PM

Photo 3 of 3 : UCIP_FA_2018_51853_70073.jpg



CMP pipe outlet deformed with over 50 percent blockage.

LM Start	2.23	Rating **	M	Issue No.	106
LM End	2.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.235880 °	39.235880 °
				-122.013045 °	-122.013045 °
DWR ID	DWR_MA0001_01 f _ 2016_106				

Comment Code

FW : Firewood

Inspector Comment

Remove the chicken wire and firewood from the landside toe.

Photo 1 of 1 : FA_2018_MA0001_297_106_20180905_00030.jpg



View of the firewood along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.23	Rating **	M	Issue No.	642	
LM End	2.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.235993 °	39.235993 °	
				-122.012970 °	-122.012970 °	
DWR ID	16429					
Comment Code						
Inspector Comment						
FS_ID:51854 DS_ID:16429 EP_NO: 9472 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 LS inlet partially plugged with soil. Some debris still present inside riser. (DWR Sutter Yard-AFreitag)10/24/2016 Debris still inside of riser.(DWR Sutter Yard-AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser. FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (54-inch pipe [HLM 2.29] authorized under Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard)) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)]. FS Date: 5/19/2017 1:23:34 PM						

LM Start	2.23	Rating **	M	Issue No.	642 (cont)
LM End	2.23	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51854_70078.jpg



View of levee crown looking downstream at crossing. CMP riser located on WS shoulder.

Photo 2 of 3 : UCIP_FA_2018_51854_70079.jpg



View of WS looking at slope and channel.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.23	Rating **	M	Issue No.	642 (cont)	
LM End	2.23	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.235993 °	39.235993 °	
				-122.012970 °	-122.012970 °	
DWR ID	16429					
Comment Code						
Inspector Comment						
FS_ID:51854 DS_ID:16429 EP_NO: 9472 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 LS inlet partially plugged with soil. Some debris still present inside riser. (DWR Sutter Yard-AFreitag)10/24/2016 Debris still inside of riser.(DWR Sutter Yard-AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet (landward side) and debris inside riser. FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (54-inch pipe [HLM 2.29] authorized under Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard)) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)]. FS Date: 5/19/2017 1:23:34 PM						

Photo 3 of 3 : UCIP_FA_2018_51854_70077.jpg



View of outlet located at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.25	Rating **	M	Issue No.	643	
LM End	2.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.236178 °	39.236178 °	
				-122.012812 °	-122.012812 °	
DWR ID	16428					
Comment Code						
Inspector Comment						
FS_ID:51855 DS_ID:16428 EP_NO: 9467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (24-inch pipe [HLM 2.31] authorized under Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)]. FS Date: 5/19/2017 1:48:04 PM						

LM Start	2.25	Rating **	M	Issue No.	643 (cont)
LM End	2.25	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2018_51855_70085.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51855_70084.jpg



View of WS slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.25	Rating **	M	Issue No.	643 (cont)	
LM End	2.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.236178 °	39.236178 °	
				-122.012812 °	-122.012812 °	
DWR ID	16428					
Comment Code						
Inspector Comment						
FS_ID:51855 DS_ID:16428 EP_NO: 9467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (24-inch pipe [HLM 2.31] authorized under Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)]. FS Date: 5/19/2017 1:48:04 PM						

Photo 3 of 3 : UCIP_FA_2018_51855_70083.jpg



Unable to locate WS outlet.

LM Start	2.25	Rating **	M	Issue No.	80
LM End	2.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.236211 °	39.236211 °
				-122.012775 °	-122.012775 °
DWR ID	DWR_MA0001_01_s_2016_80				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the metal roofing and other debris.					

Photo 1 of 1 : FA_2018_MA0001_297_80_20180905_00018.jpg



View of the equipment and debris obstructing access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.36	Rating **	M	Issue No.	107
LM End	2.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.237628 °	39.237628 °
				-122.011967 °	-122.011967 °
DWR ID	DWR_MA0001_01_f_2016_107				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_107_20180905_00031.jpg



View of the ag equipment along the landside toe.

LM Start	2.53	Rating **	U	Issue No.	20
LM End	2.55	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.239750 °	39.239955 °
				-122.010390 °	-122.010090 °
DWR ID	DWR_MA0001_01_s_2012_20				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_20_20180905_00010.jpg



View of the house next to the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	644
LM End	2.81	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.243410 °	39.243410 °
				-122.008393 °	-122.008393 °
DWR ID	16416				

Comment Code

Inspector Comment

FS_ID:51856
DS_ID:16416
EP_NO: 9474
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Appears abandoned- WS vault full of soil. Needs to be abandoned properly. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box was filled with dirt to help prevent water from through during high water times.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt.
FIELD_STRUCT_DESC: 1 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. This crossing penetrates the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gates missing. (Automatic Board Order (ABO) issued as Permit No. 9774, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand-operated slide gates. Culvert constructed with wing walls and gates. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)].
FS Date: 5/19/2017 1:48:47 PM

Photo 1 of 3 : UCIP_FA_2018_51856_70092.jpg



Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	644 (cont)	
LM End	2.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.243410 °		39.243410 °
				-122.008393 °		-122.008393 °
DWR ID	16416					
Comment Code						
Inspector Comment						
FS_ID:51856 DS_ID:16416 EP_NO: 9474 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- WS vault full of soil. Needs to be abandoned properly. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box was filled with dirt to help prevent water from through during high water times.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt. FIELD_STRUCT_DESC: 1 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. This crossing penetrates the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gates missing. (Automatic Board Order (ABO) issued as Permit No. 9774, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand-operated slide gates. Culvert constructed with wing walls and gates. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)]. FS Date: 5/19/2017 1:48:47 PM						

Photo 2 of 3 : UCIP_FA_2018_51856_70094.jpg



View of concrete distribution box and headwall located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	644 (cont)	
LM End	2.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.243410 °	39.243410 °	
				-122.008393 °	-122.008393 °	
DWR ID	16416					

Comment Code

Inspector Comment

FS_ID:51856
DS_ID:16416
EP_NO: 9474
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Appears abandoned- WS vault full of soil. Needs to be abandoned properly. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box was filled with dirt to help prevent water from through during high water times.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt.
FIELD_STRUCT_DESC: 1 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. This crossing penetrates the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gates missing. (Automatic Board Order (ABO) issued as Permit No. 9774, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand-operated slide gates. Culvert constructed with wing walls and gates. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)].
FS Date: 5/19/2017 1:48:47 PM

Photo 3 of 3 : UCIP_FA_2018_51856_70090.jpg



Concrete distribution box located on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	645
LM End	2.81	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.243433 °	39.243433 °	
			-122.008386 °	-122.008386 °	

DWR ID	17567
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Comment Code

Inspector Comment

FS_ID:51857 DS_ID:17567 EP_NO: 9474 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- WS vault full of soil. Needs to be abandoned properly. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box on WS was filled with soil to help prevent water form flowing through during times of high water.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2015 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt. FIELD_STRUCT_DESC: 2 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. Crossing goes through the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gate missing. (Automatic Board Order (ABO) issued as Permit No. 9474, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand operated slide gates. Culvert constructed with wing walls and gate well. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)]. FS Date: 5/19/2017 1:49:51 PM

Photo 1 of 3 : UCIP_FA_2018_51857_70105.jpg



Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	645 (cont)	
LM End	2.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.243433 °	39.243433 °	
				-122.008386 °	-122.008386 °	
DWR ID	17567					
Comment Code						
Inspector Comment						
FS_ID:51857 DS_ID:17567 EP_NO: 9474 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- WS vault full of soil. Needs to be abandoned properly. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box on WS was filled with soil to help prevent water form flowing through during times of high water.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2015 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt. FIELD_STRUCT_DESC: 2 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. Crossing goes through the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gate missing. (Automatic Board Order (ABO) issued as Permit No. 9474, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand operated slide gates. Culvert constructed with wing walls and gate well. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)]. FS Date: 5/19/2017 1:49:51 PM						

Photo 2 of 3 : UCIP_FA_2018_51857_70107.jpg



Concrete distribution box and headwall located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	M	Issue No.	645 (cont)
LM End	2.81	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.243433 °	39.243433 °	
			-122.008386 °	-122.008386 °	

DWR ID	17567
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Comment Code

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Inspector Comment

FS_ID:51857

DS_ID:17567

EP_NO: 9474

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 5/3/2017 Appears abandoned- WS vault full of soil.

Needs to be abandoned properly. (DWR Sutter Yard-

AFreitag)10/24/2016 Appears to be abandoned. WS vault full of soil

to help prevent water from flowing through during high water

season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box on WS

was filled with soil to help prevent water from flowing through during

times of high water.4/20/2015 Positive closure device is missing and

water cannot be prevented from flowing through pipe during high

water.6/18/2014 Same as last inspection.12/17/2013 Same as last

inspection.7/18/2013 Same as last inspection.10/18/2015 During

high water flow goes through levee. Missing positive closure device on

waterward side. This structure appears abandoned-slide gates have

been removed. Crossing needs to be properly abandoned. This

crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled

with dirt.

FIELD_STRUCT_DESC: 2 of 2: 60-inch reinforced concrete irrigation

pipe through the levee, approximately 12-15 feet below the crown.

Crossing goes through the levee at an angle. Slide gates in concrete

well at the waterside (WS) toe. Slide gate missing. (Automatic Board

Order (ABO) issued as Permit No. 9474, 1974 - George R. Zumwalt)

O&M manual description is for two 5-foot by 5-foot concrete culverts

with two hand operated slide gates. Culvert constructed with wing walls

and gate well. [Additional Reference(s): DWR Levee Log, 1992. USACE

Sacramento O&M Manual 137, August 1955, (Station 150+06)].

FS Date: 5/19/2017 1:49:51 PM

Photo 3 of 3 : UCIP_FA_2018_51857_70103.jpg



Close up view of concrete distribution box located on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	2.81	Rating **	U	Issue No.	109
LM End	2.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.243467 °	39.244902 °
				-122.008340 °	-122.007867 °
DWR ID	DWR_MA0001_01_f_2016_109				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_109_20180905_00032.jpg



View of a concrete lined ditch along the landside toe.

LM Start	3.05	Rating **	U	Issue No.	5
LM End	3.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.246813 °	39.252748 °
				-122.008155 °	-122.008320 °
DWR ID	DWR_MA0001_01_s_2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_5_20180905_00003.jpg



View of the ag. ditch & concrete building along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.33	Rating **	M	Issue No.	646
LM End	3.33	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °
				-122.007992 °	-122.007992 °
DWR ID	16426				

Comment Code

Inspector Comment

FS_ID:51859

DS_ID:16426

EP_NO: 9490

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (36-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].

FS Date: 5/19/2017 1:53:31 PM

Photo 1 of 3 : UCIP_FA_2018_51859_70110.jpg



View of LS looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.33	Rating **	M	Issue No.	646 (cont)	
LM End	3.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °	
				-122.007992 °	-122.007992 °	
DWR ID	16426					

Comment Code

Inspector Comment

FS_ID:51859

DS_ID:16426

EP_NO: 9490

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (36-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].

FS Date: 5/19/2017 1:53:31 PM

Photo 2 of 3 : UCIP_FA_2018_51859_70109.jpg



View of WS looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.33	Rating **	M	Issue No.	646 (cont)	
LM End	3.33	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.250843 °	39.250843 °	
				-122.007992 °	-122.007992 °	
DWR ID	16426					

Comment Code

Inspector Comment

FS_ID:51859

DS_ID:16426

EP_NO: 9490

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 5/3/2017 Sediment build up in WS pipe end. WS slide gate stem bent but it does not affect its operation. (DWR Sutter Yard- A Freitag)10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- A Freitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (36-inch pipe [HLM 3.78] authorized under Automatic Board Order (ABO) issued as Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].

FS Date: 5/19/2017 1:53:31 PM

Photo 3 of 3 : UCIP_FA_2018_51859_70111.jpg



View of WS slope, riser with slide gate, and outlet.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.68	Rating **	U	Issue No.	647
LM End	3.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.255803 °	39.255803 °
				-122.009683 °	-122.009683 °
DWR ID	16436				

Comment Code

Inspector Comment

FS_ID:53048
DS_ID:16436
EP_NO: 4213
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Sinkhole near concrete structure on the LS was filled with soil and debris. Flow meter at the WS shoulder and a manometer on the pipe on the LS shoulder was installed. Video inspection is recommended to determine pipe integrity through levee. (O.Yakimov - DWR)5/3/2017 Sinkhole still present next to concrete structure on LS. (DWR Sutter Yard- AFreitag)10/24/2016 Pump is on WS. Sinkhole still present over pipe alignment next to the concrete building.(DWR Sutter Yard- AFreitag)4/25/2016 No repairs have been made since last inspection. Sink holes are still present above pipe next to concrete building on LS. (DWR Sutter Yard - afreitag)4/20/2015 Sink hole over pipe alignment on LS up against the concrete building. Need to dig up pipe and see if its leaking. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)6/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Recommend adding door to LS concrete structure. Riser located on landward side is damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194 no issues logged. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe through the levee, approximately 10 feet below the crown. Gate valve on the waterside (WS) shoulder. 1-1/4 inch conduit through the levee. Siphon breaker on the landside (LS) shoulder. Concrete distribution box and control box located on the LS. Pump, walkway, and gate located on the WS berm. (Permit No. 4213, 1973 - Scott Ranch) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 1:24:05 PM

Photo 1 of 3 : UCIP_FA_2018_53048_78239.jpg



View of levee crown at crossing

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.68	Rating **	U	Issue No.	647 (cont)	
LM End	3.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.255803 °	39.255803 °	
				-122.009683 °	-122.009683 °	
DWR ID	16436					
Comment Code						
Inspector Comment						
FS_ID:53048 DS_ID:16436 EP_NO: 4213 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Sinkhole near concrete structure on the LS was filled with soil and debris. Flow meter at the WS shoulder and a manometer on the pipe on the LS shoulder was installed. Video inspection is recommended to determine pipe integrity through levee. (O.Yakimov - DWR)5/3/2017 Sinkhole still present next to concrete structure on LS. (DWR Sutter Yard- AFreitag)10/24/2016 Pump is on WS. Sinkhole still present over pipe alignment next to the concrete building.(DWR Sutter Yard- AFreitag)4/25/2016 No repairs have been made since last inspection. Sink holes are still present above pipe next to concrete building on LS. (DWR Sutter Yard - afreitag)4/20/2015 Sink hole over pipe alignment on LS up against the concrete building. Need to dig up pipe and see if its leaking. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)6/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Recommend adding door to LS concrete structure. Riser located on landward side is damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194 no issues logged. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe through the levee, approximately 10 feet below the crown. Gate valve on the waterside (WS) shoulder. 1-1/4 inch conduit through the levee. Siphon breaker on the landside (LS) shoulder. Concrete distribution box and control box located on the LS. Pump, walkway, and gate located on the WS berm. (Permit No. 4213, 1973 - Scott Ranch) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/1/2018 1:24:05 PM						

Photo 2 of 3 : UCIP_FA_2018_53048_78238.jpg



Flow meter installed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.68	Rating **	U	Issue No.	647 (cont)
LM End	3.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.255803 °	39.255803 °
				-122.009683 °	-122.009683 °
DWR ID	16436				

Comment Code

Inspector Comment

FS_ID:53048
DS_ID:16436
EP_NO: 4213
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Sinkhole near concrete structure on the LS was filled with soil and debris. Flow meter at the WS shoulder and a manometer on the pipe on the LS shoulder was installed. Video inspection is recommended to determine pipe integrity through levee. (O.Yakimov - DWR)5/3/2017 Sinkhole still present next to concrete structure on LS. (DWR Sutter Yard- AFreitag)10/24/2016 Pump is on WS. Sinkhole still present over pipe alignment next to the concrete building.(DWR Sutter Yard- AFreitag)4/25/2016 No repairs have been made since last inspection. Sink holes are still present above pipe next to concrete building on LS. (DWR Sutter Yard - afreitag)4/20/2015 Sink hole over pipe alignment on LS up against the concrete building. Need to dig up pipe and see if its leaking. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)6/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Recommend adding door to LS concrete structure. Riser located on landward side is damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194 no issues logged. (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe through the levee, approximately 10 feet below the crown. Gate valve on the waterside (WS) shoulder. 1-1/4 inch conduit through the levee. Siphon breaker on the landside (LS) shoulder. Concrete distribution box and control box located on the LS. Pump, walkway, and gate located on the WS berm. (Permit No. 4213, 1973 - Scott Ranch) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 1:24:05 PM

Photo 3 of 3 : UCIP_FA_2018_53048_78236.jpg



Manometer and air valve installed on pipe at LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.71	Rating **	M	Issue No.	648
LM End	3.71	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.256189 °	39.256189 °	
			-122.009957 °	-122.009957 °	
DWR ID	16424				

Comment Code

Inspector Comment

FS_ID:51861
DS_ID:16424
EP_NO: 9490
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Abandoned- Needs to be done properly.
(DWR Sutter Yard- AFreitag)10/24/2016 Abandoned. Needs a cover made for the LS distribution box.(DWR Sutter Yard- AFreitag)4/25/2016 ABANDONED crossing and should be abandoned properly. Concrete distribution box on LS is opened on top and could pose a safety hazard with falling.4/20/2015 Same as last inspection. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID#
USACE_CESPK_MA1C_2010_p_0194-6 & 7 no issues logged.
FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, approximately 12-15 feet below the crown. Concrete distribution box with pump system located on the landside (LS). Slide gate on the waterside (WS) slope--removed. 18-inch pipe visible on the LS inside 10-foot by 16 foot concrete box. (Automatic Board Order (ABO) issued as Permit No. 9490, 1974 - Charles T & Virginia W. Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955 (Station 197+19)]
FS Date: 5/19/2017 2:00:07 PM

LM Start	3.71	Rating **	M	Issue No.	648 (cont)
LM End	3.71	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51861_70125.jpg



Concrete distribution box located on LS.

Photo 2 of 3 : UCIP_FA_2018_51861_70123.jpg



Abandoned pump system inside concrete structure located on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.71	Rating **	M	Issue No.	648 (cont)	
LM End	3.71	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.256189 °	39.256189 °	
				-122.009957 °	-122.009957 °	
DWR ID	16424					
Comment Code						
Inspector Comment						
FS_ID:51861 DS_ID:16424 EP_NO: 9490 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- Needs to be done properly. (DWR Sutter Yard- AFreitag)10/24/2016 Abandoned. Needs a cover made for the LS distribution box.(DWR Sutter Yard- AFreitag)4/25/2016 ABANDONED crossing and should be abandoned properly. Concrete distribution box on LS is opened on top and could pose a safety hazard with falling.4/20/2015 Same as last inspection. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194-6 & 7 no issues logged. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, approximately 12-15 feet below the crown. Concrete distribution box with pump system located on the landside (LS). Slide gate on the waterside (WS) slope--removed. 18-inch pipe visible on the LS inside 10-foot by 16 foot concrete box. (Automatic Board Order (ABO) issued as Permit No. 9490, 1974 - Charles T & Virginia W. Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955 (Station 197+19)] FS Date: 5/19/2017 2:00:07 PM						

Photo 3 of 3 : UCIP_FA_2018_51861_70122.jpg



Debris inside concrete structure located on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.77	Rating **	M	Issue No.	649
LM End	3.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.256203 °	39.256203 °
				-122.009940 °	-122.009940 °
DWR ID	16423				
Comment Code					
Inspector Comment					
FS_ID:51862 DS_ID:16423 EP_NO: 9489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- if so needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Crossing appears abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Crossing appears abandoned and should be abandoned properly.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Slide gate wheel handle missing. Clear debris from CMP riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0196 for access box contains backfilled (permanently shut) and outlet located on landside has sediment build up. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee at an unknown depth below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 6-foot concrete box on the WS berm. Additional 12-inch pipe inside concrete distribution box. (Automatic Board Order (ABO) issued as Permit No. 9489, 1974 - Mayfair Farms Inc.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 198+00)]. FS Date: 5/19/2017 2:02:21 PM					

LM Start	3.77	Rating **	M	Issue No.	649 (cont)
LM End	3.77	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51862_70128.jpg



View of crossing looking upstream. Concrete box located on the WS.

Photo 2 of 3 : UCIP_FA_2018_51862_70131.jpg



View of concrete distribution box and CMP riser located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.77	Rating **	M	Issue No.	649 (cont)	
LM End	3.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.256203 °	39.256203 °	
				-122.009940 °	-122.009940 °	
DWR ID	16423					
Comment Code						
Inspector Comment						
FS_ID:51862 DS_ID:16423 EP_NO: 9489 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- if so needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Crossing appears abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Crossing appears abandoned and should be abandoned properly.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Slide gate wheel handle missing. Clear debris from CMP riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0196 for access box contains backfilled (permanently shut) and outlet located on landside has sediment build up. FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee at an unknown depth below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 6-foot concrete box on the WS berm. Additional 12-inch pipe inside concrete distribution box. (Automatic Board Order (ABO) issued as Permit No. 9489, 1974 - Mayfair Farms Inc.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 198+00)]. FS Date: 5/19/2017 2:02:21 PM						

Photo 3 of 3 : UCIP_FA_2018_51862_70126.jpg



WS-Inside view of CMP riser located on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.79	Rating **	M	Issue No.	650	
LM End	3.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.256606 °	39.256606 °	
				-122.011115 °	-122.011115 °	
DWR ID	17659					
Comment Code						
Inspector Comment						
FS_ID:51863 DS_ID:17659 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 5/3/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/24/2016 Unable to locate.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 USA flag markers show some type of alignment on LS. Unable to determine if crossing still exists at this location. FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee at an unknown depth below the crown. Automatic drainage gate on the outlet end of the pipe. [Additional Reference(s): USACE Sacramento O&M Manual 137, August 1955, (Station 150+20)]. FS Date: 5/19/2017 2:04:17 PM						

No Photos

LM Start	3.88	Rating **	M	Issue No.	50
LM End	3.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.257125°	39.257125°
				-122.012648°	-122.012648°
DWR ID	DWR_MA0001_01_f_2013_50				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.95	Rating **	M	Issue No.	651
LM End	3.95	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.258073 °	39.258073 °	
			-122.013165 °	-122.013165 °	
DWR ID	16422				

Comment Code

Inspector Comment

FS_ID:51864
DS_ID:16422
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Appears abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Appears to be abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Appears to be an abandoned crossing. 4/20/2015 Debris is still blocking gate. Appears to be an abandoned crossing.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Wheel to operate slide gate has been replaced but gate is still blocked by debris.10/19/2012 WS-wheel to operate slide gate missing, walkway has been removed; burrow activity near structure; debris in concrete distribution box WS blocking gate. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0207 the wheel to operate sluice gate missing.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch drainage pipe of an unknown material through the levee, unknown depth below the crown. Walkway to slide gate on the waterside (WS) end. Walkway has been removed. Flap gate in concrete distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 5/19/2017 2:05:36 PM

LM Start	3.95	Rating **	M	Issue No.	651 (cont)
LM End	3.95	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51864_70137.jpg



View of levee crown looking upstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51864_70139.jpg



View of WS slope with concrete structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	3.95	Rating **	M	Issue No.	651 (cont)	
LM End	3.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.258073 °	39.258073 °	
				-122.013165 °	-122.013165 °	
DWR ID	16422					
Comment Code						
Inspector Comment						
FS_ID:51864 DS_ID:16422 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Appears to be abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Appears to be an abandoned crossing. 4/20/2015 Debrs is still blocking gate. Appears to be an abandoned crossing.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Wheel to operate slide gate has been replaced but gate is still blocked by debris.10/19/2012 WS-wheel to operate slide gate missing, walkway has been removed; burrow activity near structure; debris in concrete distribution box WS blocking gate. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0207 the wheel to operate sluice gate missing. FIELD_STRUCT_DESC: *ABANDONED* 24-inch drainage pipe of an unknown material through the levee, unknown depth below the crown. Walkway to slide gate on the waterside (WS) end. Walkway has been removed. Flap gate in concrete distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/19/2017 2:05:36 PM						

Photo 3 of 3 : UCIP_FA_2018_51864_70138.jpg



View of slide gate located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	4.65	Rating **	M	Issue No.	652	
LM End	4.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.266435 °	39.266435 °	
				-122.010943 °	-122.010943 °	
DWR ID	16421					
Comment Code						
Inspector Comment						
FS_ID:51865 DS_ID:16421 EP_NO: 9475 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- only WS standpipe visible. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Abandoned crossing. Only WS standpipe is visible.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Burrow activity; limited visibility of this crossing only on WS riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0207 the wheel to operate sluice gate missing. Issue addressed wheel to slide gate has been installed. FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal irrigation pipe through the levee, 16.1 feet below the crown. Slide gate inside corrugated metal pipe (CMP) riser located on the waterside (WS) end. Line buried on the WS and landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9475, 1974 - Mattie B. Zumwalt Co.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 247+86)]. FS Date: 5/23/2017 9:39:55 AM						

LM Start	4.65	Rating **	M	Issue No.	652 (cont)
LM End	4.65	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51865_70144.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51865_70147.jpg



Riser with slide gate located on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	4.65	Rating **	M	Issue No.	652 (cont)	
LM End	4.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.266435 °	39.266435 °	
				-122.010943 °	-122.010943 °	
DWR ID	16421					
Comment Code						
Inspector Comment						
FS_ID:51865 DS_ID:16421 EP_NO: 9475 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- only WS standpipe visible. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Abandoned crossing. Only WS standpipe is visible.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Burrow activity; limited visibility of this crossing only on WS riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0207 the wheel to operate sluice gate missing. Issue addressed wheel to slide gate has been installed. FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal irrigation pipe through the levee, 16.1 feet below the crown. Slide gate inside corrugated metal pipe (CMP) riser located on the waterside (WS) end. Line buried on the WS and landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9475, 1974 - Mattie B. Zumwalt Co.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 247+86)]. FS Date: 5/23/2017 9:39:55 AM						

Photo 3 of 3 : UCIP_FA_2018_51865_70146.jpg



WS--Woody debris inside riser blocking gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	4.97	Rating **	M	Issue No.	653
LM End	4.97	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.264924 °	39.264924 °
				-122.015887 °	-122.015887 °
DWR ID	16420				

Comment Code

Inspector Comment

FS_ID:51868
DS_ID:16420
EP_NO: 4903
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 5/3/2017 Appears abandoned- if so needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 appears to be abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Appears to be an abandoned crossing.4/20/2015 Suspect that pump on LS is a well pump and has nothing to do with this crossing.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Unable to locate siphon breaker, pump on LS; unable to tell if pump system is part of appurtenances. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0233 for utility pole and 8 inch steel riser located on landward toe.
FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, approximately 18-20 feet below the crown. Siphon breaker in 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder--not found. 3-inch electrical conduit through the levee--not found. Utility pole visible on the LS. Well station visible on the LS. No appurtenances visible on the waterside (WS). (Permit No. 4903, 4903-A, 1966 - Mattie B. Zumwalt Company, Inc.) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 5/23/2017 9:41:40 AM

LM Start	4.97	Rating **	M	Issue No.	653 (cont)
LM End	4.97	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51868_70150.jpg



View of levee crown looking downstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51868_70149.jpg



View of levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	4.97	Rating **	M	Issue No.	653 (cont)	
LM End	4.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.264924 °	39.264924 °	
				-122.015887 °	-122.015887 °	
DWR ID	16420					
Comment Code						
Inspector Comment						
FS_ID:51868 DS_ID:16420 EP_NO: 4903 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/3/2017 Appears abandoned- if so needs to be done properly. (DWR Sutter Yard- AFreitag)10/24/2016 appears to be abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Appears to be an abandoned crossing.4/20/2015 Suspect that pump on LS is a well pump and has nothing to do with this crossing.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Unable to locate siphon breaker, pump on LS; unable to tell if pump system is part of appurtenances. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0233 for utility pole and 8 inch steel riser located on landward toe. FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, approximately 18-20 feet below the crown. Siphon breaker in 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder--not found. 3-inch electrical conduit through the levee--not found. Utility pole visible on the LS. Well station visible on the LS. No appurtenances visible on the waterside (WS). (Permit No. 4903, 4903-A, 1966 - Mattie B. Zumwalt Company, Inc.) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 9:41:40 AM						

Photo 3 of 3 : UCIP_FA_2018_51868_70148.jpg



View of WS-no visible appurtenances associated with structure.

LM Start	4.97	Rating **	M	Issue No.	113
LM End	4.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.264922 °	39.264922 °
				-122.015955 °	-122.015955 °
DWR ID	DWR_MA0001_01_f_2016_113				
Comment Code					
EQ : Equipment					
Inspector Comment					
Move the equipment at least 10' away from the levee toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	5.72	Rating **	M	Issue No.	654
LM End	5.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.272069 °	39.272069 °
				-122.023240 °	-122.023240 °
DWR ID	16419				

Comment Code

Inspector Comment

FS_ID:51869
DS_ID:16419
EP_NO: 9476
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Culvert has sediment build up in it- needs to be cleaned out. (DWR Sutter Yard- A Freitag)10/24/2016 LS outlets becoming over grown with vegetation in the ditch.(DWR Sutter Yard- A Freitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows some cracking and tilting.
FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal irrigation pipe and concrete box culvert through the levee at an unknown depth below the crown. Concrete headwall visible on the landside (LS) toe.
(Automatic Board Order (ABO) issued as Permit No. 9476, 1974 - Ohliger) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 5/23/2017 9:51:10 AM

LM Start	5.72	Rating **	M	Issue No.	654 (cont)
LM End	5.72	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51869_70154.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51869_70152.jpg



View of crossing looking upstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	5.72	Rating **	M	Issue No.	654 (cont)	
LM End	5.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.272069 °	39.272069 °	
				-122.023240 °	-122.023240 °	
DWR ID	16419					
Comment Code						
Inspector Comment						
FS_ID:51869 DS_ID:16419 EP_NO: 9476 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Culvert has sediment build up in it- needs to be cleaned out. (DWR Sutter Yard- AFreitag)10/24/2016 LS outlets becoming over grown with vegetation in the ditch.(DWR Sutter Yard- AFreitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows some cracking and tilting. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal irrigation pipe and concrete box culvert through the levee at an unknown depth below the crown. Concrete headwall visible on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9476, 1974 - Ohliger) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 9:51:10 AM						

Photo 3 of 3 : UCIP_FA_2018_51869_70156.jpg



View of WS slope and access road. Slide gate is second crossing at this location.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	5.72	Rating **	M	Issue No.	655
LM End	5.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.272069 °	39.272069 °
				-122.023240 °	-122.023240 °
DWR ID	17569				
Comment Code					
Inspector Comment					
FS_ID:51870 DS_ID:17569 EP_NO: 9476 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2107 Culvert has sediment build up in it- needs to be cleaned out. (DWR Sutter Yard- A Freitag)10/24/2016 LS outlets becoming overgrown with vegetation in the dtch.(DWR Sutter Yard- A Freitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows some cracking and tilting. FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal irrigation pipe (15 feet long) and concrete box culvert through the levee at an unknown depth below the crown. Slide gate located on the waterside (WS). Concrete headwall visible on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9476-1974, Howard C. & Nadine M. Ohliger) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 9:56:33 AM					

Photo 1 of 3 : UCIP_FA_2018_51870_70162.jpg



View of levee crown looking downstream at crossing.

LM Start	5.72	Rating **	M	Issue No.	655 (cont)
LM End	5.72	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51870_70161.jpg



View of levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	5.72	Rating **	M	Issue No.	655 (cont)	
LM End	5.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.272069 °	39.272069 °	
				-122.023240 °	-122.023240 °	
DWR ID	17569					
Comment Code						
Inspector Comment						
FS_ID:51870 DS_ID:17569 EP_NO: 9476 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2107 Culvert has sediment build up in it- needs to be cleaned out. (DWR Sutter Yard- A Freitag)10/24/2016 LS outlets becoming overgrown with vegetation in the dtch.(DWR Sutter Yard- A Freitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows some cracking and tilting. FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal irrigation pipe (15 feet long) and concrete box culvert through the levee at an unknown depth below the crown. Slide gate located on the waterside (WS). Concrete headwall visible on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9476-1974, Howard C. & Nadine M. Ohliger) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 9:56:33 AM						

Photo 3 of 3 : UCIP_FA_2018_51870_70160.jpg



Headwall and slide gate located on WS.

LM Start	5.77	Rating **	M	Issue No.	35
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.272773 °	39.272773 °
				-122.023290 °	-122.023290 °
DWR ID	DWR_MA0001_01_s_2012_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	5.77	Rating **	M	Issue No.	656
LM End	5.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.272829 °	39.272829 °
				-122.023282 °	-122.023282 °
DWR ID	16418				

Comment Code

Inspector Comment

FS_ID:51872
DS_ID:16418
EP_NO: 6263
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Crossing appears to be in good condition.
(DWR Sutter Yard- A Freitag)10/24/2016 Appears to be in good condition.
(DWR Sutter Yard- A Freitag)4/25/2016 Pressure gauge and valve were added to pipe near the siphon breaker on LS shoulder.
4/20/2015 Modifications are being made to pipe near the LS shoulder. Not sure what all exactly is being done.
6/23/2014 Same as last inspection. 12/17/2013 Same as last inspection. 7/18/2013 Debris cleared from in front of LS standpipe.
10/19/2012 Remove debris from landward side see photo 2. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0249 however, unable to determine why crossing was marked "U".
FIELD_STRUCT_DESC: 18-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Siphon breaker on the landside (LS) shoulder. Corrugated metal pipe (CMP) riser located on the LS connects with concrete V-ditch. Dual slant pumps and gate valves on the bank approximately 215 feet from waterside (WS) toe. Pump feeds into single 18-inch steel pipe. 2-inch electrical conduit buried in the same trench as the irrigation pipe. (Permit No. 6263, 1968 - C. Tuttle) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 5/23/2017 10:05:22 AM

LM Start	5.77	Rating **	M	Issue No.	656 (cont)
LM End	5.77	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51872_70167.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51872_70166.jpg



CMP riser and concrete lined v-ditch located on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	5.77	Rating **	M	Issue No.	656 (cont)	
LM End	5.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.272829 °	39.272829 °	
				-122.023282 °	-122.023282 °	
DWR ID	16418					
Comment Code						
Inspector Comment						
FS_ID:51872 DS_ID:16418 EP_NO: 6263 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)10/24/2016 Appears to be in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 Pressure gauge and valve were added to pipe near the siphon breaker on LS shoulder.4/20/2015 Modifications are being made to pipe near the LS shoulder. Not sure what all exactly is being done.6/23/2014 Same as last inspection. 12/17/2013 Same as last inspection.7/18/2013 Debris cleared from in front of LS standpipe.10/19/2012 Remove debris from landward side see photo 2. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0249 however, unable to determine why crossing was marked "U". FIELD_STRUCT_DESC: 18-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Siphon breaker on the landside (LS) shoulder. Corrugated metal pipe (CMP) riser located on the LS connects with concrete V-ditch. Dual slant pumps and gate valves on the bank approximately 215 feet from waterside (WS) toe. Pump feeds into single 18-inch steel pipe. 2-inch electrical conduit buried in the same trench as the irrigation pipe. (Permit No. 6263, 1968 - C. Tuttle) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 10:05:22 AM						

Photo 3 of 3 : UCIP_FA_2018_51872_70171.jpg



Photo 1 of 2 inside view of CMP riser located on LS toe.

LM Start	5.97	Rating **	A	Issue No.	70
LM End	5.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.275672 °	39.275672 °
				-122.023570 °	-122.023570 °
DWR ID	DWR_MA0001_01_f_2018_70				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The LMA is doing an excellent job of managing the vegetation on the slopes of the levee in this area.					

Photo 1 of 1 : FA_2018_MA0001_297_70_20181005_00151.jpg



View of the levee with no vegetation on both slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.23	Rating **	C	Issue No.	114
LM End	6.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.279293°	39.279293°
				-122.022537°	-122.022537°
DWR ID	DWR_MA0001_01_f_2016_114				
Comment Code					
DE : Debris					
Inspector Comment					
The debris was removed from the landside slope					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.24	Rating **	U	Issue No.	657
LM End	6.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.279462 °	39.279462 °
				-122.022461 °	-122.022461 °
DWR ID	16446				

Comment Code

Inspector Comment

FS_ID:53049

DS_ID:16446

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 PVC pipe underneath the slide gate that is located inside CMP riser on WS shoulder was restored and blocks gate from closing. Sediment built up at the bottom of CMP riser. PVC pipe needs to be removed in order to properly close slide gate. (O.Yakimov - DWR)5/3/2017 Pipe leaked during the Jan/Feb 2017 high water event. Sand bags were placed at both the LS and WS outlets as well as down inside the standpipe to slow the water flow. The 5inch pvc was cut away but the slide gate could still not close fully. Suspect sediment build up was in the bottom of the stand pipe was blocking the gate. Inside of pipe should be cleaned out. (DWR Sutter Yard - AFreitag)10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attached(DWR Sutter Yard - AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing through pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/1/2018 2:59:44 PM

Photo 1 of 3 : UCIP_FA_2018_53049_78240.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.24	Rating **	U	Issue No.	657 (cont)
LM End	6.24	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.279462 °	39.279462 °
				-122.022461 °	-122.022461 °
DWR ID	16446				

Comment Code

Inspector Comment

FS_ID:53049

DS_ID:16446

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 PVC pipe underneath the slide gate that is located inside CMP riser on WS shoulder was restored and blocks gate from closing. Sediment built up at the bottom of CMP riser. PVC pipe needs to be removed in order to properly close slide gate. (O.Yakimov - DWR)5/3/2017 Pipe leaked during the Jan/Feb 2017 high water event. Sand bags were placed at both the LS and WS outlets as well as down inside the standpipe to slow the water flow. The 5inch pvc was cut away but the slide gate could still not close fully. Suspect sediment build up was in the bottom of the stand pipe was blocking the gate. Inside of pipe should be cleaned out. (DWR Sutter Yard - AFreitag)10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attached(DWR Sutter Yard - AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing though pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/1/2018 2:59:44 PM

Photo 2 of 3 : UCIP_FA_2018_53049_78243.jpg



View of CMP riser at WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Maintenance Area 0001

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.38	Rating **	M	Issue No.	115
LM End	6.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.281425 °	39.281425 °
				-122.022000 °	-122.022000 °
DWR ID	DWR_MA0001_01_f_2016_115				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : FA_2018_MA0001_297_115_20180905_00035.jpg



View of the prunings along the landside toe.

LM Start	6.40	Rating **	M	Issue No.	658
LM End	6.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.281721°	39.281721°
				-122.021894°	-122.021894°
DWR ID	16425				
Comment Code					
Inspector Comment					
FS_ID:51874 DS_ID:16425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible). FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)]. FS Date: 5/23/2017 10:13:24 AM					

Photo 1 of 3 : UCIP_FA_2018_51874_70181.jpg



View of WS no structure features visible.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.40	Rating **	M	Issue No.	658 (cont)	
LM End	6.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.281721 °	39.281721 °	
				-122.021894 °	-122.021894 °	
DWR ID	16425					
Comment Code						
Inspector Comment						
FS_ID:51874 DS_ID:16425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible). FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)]. FS Date: 5/23/2017 10:13:24 AM						

LM Start	6.40	Rating **	M	Issue No.	658 (cont)
LM End	6.40	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_FA_2018_51874_70180.jpg



Overview of levee crown looking downstream at crossing.

Photo 3 of 3 : UCIP_FA_2018_51874_70179.jpg



View of structure located in LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.99	Rating **	M	Issue No.	659
LM End	6.99	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.290147°	39.290147°	
			-122.021525°	-122.021525°	
DWR ID	16427				

Comment Code

Inspector Comment

FS_ID:51875
DS_ID:16427
EP_NO: 9482
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 Abandoned- Needs to be done properly.
(DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned pipe. Needs to be properly plugged if it never gets used.4/20/2015 Same as last inspection. Structure is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch reinforced concrete irrigation pipe through the levee at approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete headwalls located on both WS and landside (LS). O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482, 1974 - Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)].
FS Date: 5/23/2017 10:14:12 AM

LM Start	6.99	Rating **	M	Issue No.	659 (cont)
LM End	6.99	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51875_70188.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51875_70187.jpg



WS-walkway and concrete headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.99	Rating **	M	Issue No.	659 (cont)							
LM End	6.99	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		39.290147 °	39.290147 °								
			-122.021525 °	-122.021525 °								
DWR ID	16427											
Comment Code												
Inspector Comment												
FS_ID:51875 DS_ID:16427 EP_NO: 9482 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- Needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned pipe. Needs to be properly plugged if it never gets used.4/20/2015 Same as last inspection. Structure is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch reinforced concrete irrigation pipe through the levee at approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete headwalls located on both WS and landside (LS). O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482, 1974 - Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)]. FS Date: 5/23/2017 10:14:12 AM												

Photo 3 of 3 : UCIP_FA_2018_51875_70190.jpg



View of crossing from WS side. WS blocked by sediment. 2 slide gates part of structure design.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.99	Rating **	M	Issue No.	660
LM End	6.99	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.290169 °	39.290169 °
				-122.021532 °	-122.021532 °
DWR ID	17570				

Comment Code

Inspector Comment

FS_ID:51876
DS_ID:17570
EP_NO: 9482
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 WS slide gate was unburied and crossing was being used for irrigaton during site visit.(DWR Sutter Yard- AFreitag)10/24/2016 WS slide gate was unbruied and opened.(DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate was unburied and opened allowing water to flow through to LS fields.4/20/2015 Structure is operational. WS slide gate was unburied allowing water to irrigate the fields. It gets reburied during highwater season.

6/23/2014 Same as last inspection. Soli dug out again and water flowing through crossing.12/17/2013 WS screw gate was closed and buried by soil again.7/18/2013 WS screw gate has been cleared of dirt and is open to irrigate LS fields. LS outlet is still mostly blocked by sediment.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: 2 of 2: 36-inch reinforced concrete irrigation pipe through the levee, approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete structure located on both WS and landside (LS). Inspector noticed that during 2015-2016 that this crossing is used in the spring and summer, and buried in the winter. O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482-1974, Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)].
FS Date: 5/23/2017 10:15:43 AM

Photo 1 of 3 : UCIP_FA_2018_51876_70194.jpg



Overview of levee crown looking downstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.99	Rating **	M	Issue No.	660 (cont)	
LM End	6.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.290169 °	39.290169 °	
				-122.021532 °	-122.021532 °	
DWR ID	17570					

Comment Code

Inspector Comment

FS_ID:51876

DS_ID:17570

EP_NO: 9482

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 5/3/2017 WS slide gate was unburied and crossing was being used for irrigaton during site visit.(DWR Sutter Yard- AFreitag)10/24/2016 WS slide gate was unbruied and opened.(DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate was unburied and opened allowing water to flow through to LS fields.4/20/2015 Structure is operational. WS slide gate was unburied allowing water to irrigate the fields. It gets reburied during highwater season.

6/23/2014 Same as last inspection. Soli dug out again and water flowing through crossing.12/17/2013 WS screw gate was closed and buried by soil again.7/18/2013 WS screw gate has been cleared of dirt and is open to irrigate LS fields. LS outlet is still mostly blocked by sediment.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: 2 of 2: 36-inch reinforced concrete irrigation pipe through the levee, approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete structure located on both WS and landside (LS). Inspector noticed that during 2015-2016 that this crossing is used in the spring and summer, and buried in the winter. O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482-1974, Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)]. FS Date: 5/23/2017 10:15:43 AM

Photo 2 of 3 : UCIP_FA_2018_51876_70193.jpg



WS-walkway and concrete headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	6.99	Rating **	M	Issue No.	660 (cont)	
LM End	6.99	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.290169 °	39.290169 °	
				-122.021532 °	-122.021532 °	
DWR ID	17570					

Comment Code

Inspector Comment

FS_ID:51876
DS_ID:17570
EP_NO: 9482
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 5/3/2017 WS slide gate was unburied and crossing was being used for irrigaton during site visit.(DWR Sutter Yard- AFreitag)10/24/2016 WS slide gate was unbruied and opened.(DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate was unburied and opened allowing water to flow through to LS fields.4/20/2015 Structure is operational. WS slide gate was unburied allowing water to irrigate the fields. It gets reburied during highwater season.

6/23/2014 Same as last inspection. Soli dug out again and water flowing through crossing.12/17/2013 WS screw gate was closed and buried by soil again.7/18/2013 WS screw gate has been cleared of dirt and is open to irrigate LS fields. LS outlet is still mostly blocked by sediment.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS.

FIELD_STRUCT_DESC: 2 of 2: 36-inch reinforced concrete irrigation pipe through the levee, approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete structure located on both WS and landside (LS). Inspector noticed that during 2015-2016 that this crossing is used in the spring and summer, and buried in the winter. O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482-1974, Elizabeth M. Farnsworth)

[Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)].

FS Date: 5/23/2017 10:15:43 AM

Photo 3 of 3 : UCIP_FA_2018_51876_70196.jpg



View of crossing from WS. WS blocked by sediment. 2 slide gates part of structure design.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	7.20	Rating **	U	Issue No.	82
LM End	7.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.293151 °	39.294042 °
				-122.021356 °	-122.021449 °
DWR ID	DWR_MA0001_01_s_2016_82				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_82_20180905_00019.jpg



View of the ditch along the landside toe.

LM Start	7.27	Rating **	M	Issue No.	661
LM End	7.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.294074 °	39.294074 °
				-122.021435 °	-122.021435 °
DWR ID	16456				
Comment Code					
Inspector Comment					
FS_ID:51877 DS_ID:16456 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Culvert was flowing water during site visit. Appears to be in good condition. Some sediment build up in the bottom of WS box. (DWR Sutter Yard- AFreitag)10/24/2016 Notes mentioned needing to confirm size of the culvert but was unable to access the ends at this inspection.(DWR Sutter Yard- AFreitag)4/25/2016 Second slide gate was held open to allow water to flow through to the LS ditch.4/20/2015 Same as last inspection. Rebar pin was still in place holding the gate opened.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Sediment and debris on waterward and landward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0293 for wooden slide gate held open by a piece of rebar acting as a pin. FIELD_STRUCT_DESC: 60-inches by 72-inches (5-foot by 6-foot) reinforced concrete box irrigation culvert (O&M manual references 3-foot and 10-inch by 6-foot culvert) through the levee, approximately 12-15 feet below the crown. Two wooden slide gates on the waterside (WS) end. Concrete v-ditch along landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 385+33.5)]. FS Date: 5/23/2017 10:27:11 AM					

Photo 1 of 3 : UCIP_FA_2018_51877_70202.jpg



Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	7.27	Rating **	M	Issue No.	661 (cont)	
LM End	7.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.294074 °	39.294074 °	
				-122.021435 °	-122.021435 °	
DWR ID	16456					
Comment Code						
Inspector Comment						
FS_ID:51877 DS_ID:16456 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Culvert was flowing water during site visit. Appears to be in good condition. Some sediment build up in the bottom of WS box. (DWR Sutter Yard- AFreitag)10/24/2016 Notes mentioned needing to confirm size of the culvert but was unable to access the ends at this inspection.(DWR Sutter Yard- AFreitag)4/25/2016 Second slide gate was held open to allow water to flow through to the LS ditch.4/20/2015 Same as last inspection. Rebar pin was still in place holding the gate opened.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Sediment and debris on waterward and landward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0293 for wooden slide gate held open by a piece of rebar acting as a pin. FIELD_STRUCT_DESC: 60-inches by 72-inches (5-foot by 6-foot) reinforced concrete box irrigation culvert (O&M manual references 3-foot and 10-inch by 6-foot culvert) through the levee, approximately 12-15 feet below the crown. Two wooden slide gates on the waterside (WS) end. Concrete v-ditch along landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 385+33.5)]. FS Date: 5/23/2017 10:27:11 AM						

Photo 2 of 3 : UCIP_FA_2018_51877_70204.jpg



Overview of levee crown looking upstream at crossing.

LM Start	7.27	Rating **	M	Issue No.	661 (cont)
LM End	7.27	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_51877_70203.jpg



View of wooden sluice gates located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	7.28	Rating **	M	Issue No.	117
LM End	7.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.294273 °	39.294273 °
				-122.021493 °	-122.021493 °
DWR ID	DWR_MA0001_01_f_2016_117				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	7.45	Rating **	M	Issue No.	136
LM End	7.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.296728 °	39.296728 °
				-122.021682 °	-122.021682 °
DWR ID	DWR_MA0001_01_s_2017_136				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	7.51	Rating **	A/W	Issue No.	24
LM End	7.80	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.297533 °	39.297420 °
				-122.021779 °	-122.027010 °
DWR ID	DWR_MA0001_01_s_2012_24				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	662	
LM End	7.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.297384 °	39.297384 °	
				-122.022989 °	-122.022989 °	
DWR ID	16455					
Comment Code						
Inspector Comment						
FS_ID:51878						
DS_ID:16455						
EP_NO: 12334						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/3/2017 No LS inlet found and no pump on WS- appears to have been abandoned. If so needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Pump removed from WS pipe. Pipe end left open and should be capped.(DWR Sutter Yard- A Freitag)4/25/2016 No LS inlet found4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Siphon breaker housing unit is bent and has debris inside. LS outlet not found.						
FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3 feet below the crown. Centrifugal pump on the waterside (WS) bank. Siphon breaker on the landside (LS) shoulder of the levee. (Permit No. 12334, 1978 - Jean James) [Additional Reference(s): DWR Levee Log, 1992].						
FS Date: 5/23/2017 10:29:58 AM						

LM Start	7.58	Rating **	M	Issue No.	662 (cont)
LM End	7.58	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51878_70209.jpg



View of WS-no features on levee shoulder or slope.

Photo 2 of 3 : UCIP_FA_2018_51878_70210.jpg



Pump located on WS bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	662 (cont)	
LM End	7.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.297384 °	39.297384 °	
				-122.022989 °	-122.022989 °	
DWR ID	16455					
Comment Code						
Inspector Comment						
FS_ID:51878 DS_ID:16455 EP_NO: 12334 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 No LS inlet found and no pump on WS- appears to have been abandoned. If so needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Pump removed from WS pipe. Pipe end left open and should be capped.(DWR Sutter Yard- A Freitag)4/25/2016 No LS inlet found4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Siphon breaker housing unit is bent and has debris inside. LS outlet not found. FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3 feet below the crown. Centrifugal pump on the waterside (WS) bank. Siphon breaker on the landside (LS) shoulder of the levee. (Permit No. 12334, 1978 - Jean James) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 10:29:58 AM						

Photo 3 of 3 : UCIP_FA_2018_51878_70211.jpg



View of LS with appurtenances present on levee shoulder.

LM Start	8.73	Rating **	M	Issue No.	25
LM End	9.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.308390 °	39.315125 °
				-122.031157 °	-122.030206 °
DWR ID	DWR_MA0001_01_s_2012_25				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_25_20180905_00011.jpg



View of the agricultural ditch along the L/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	8.92	Rating **	M	Issue No.	663
LM End	8.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.311103 °	39.311103 °
				-122.030541 °	-122.030541 °
DWR ID	16454				
Comment Code					
Inspector Comment					
FS_ID:51879 DS_ID:16454 EP_NO: 9466 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Crossing appears to be abandoned. Power lines cut from the panels inside the concrete structure on LS.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 No access to inspect slide gate on LS. Roof of pumping house deteriorating and debris scattered on LS. WS crossing not found. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_345 no issues recorded. FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe through the levee, approximately 8-10 feet below the crown. Slide gate in concrete riser on the landside (LS) slope. Pump house encroaches into the LS slope. Two service poles on the LS shoulder. No visible appurtenances found on the waterside (WS) toe. Power source cut on the LS. (Automatic Board Order (ABO) issued as Permit No. 9466, 1974 - Roman Catholic Bishop of Sacramento). [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 10:31:07 AM					

LM Start	8.92	Rating **	M	Issue No.	663 (cont)
LM End	8.92	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_51879_70219.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_51879_70217.jpg



Overview of levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	8.92	Rating **	M	Issue No.	663 (cont)	
LM End	8.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.311103 °	39.311103 °	
				-122.030541 °	-122.030541 °	
DWR ID	16454					
Comment Code						
Inspector Comment						
FS_ID:51879						
DS_ID:16454						
EP_NO: 9466						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/3/2017 Abandoned- needs to be done properly.						
(DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter						
Yard- A Freitag)4/25/2016 Crossing appears to be abandoned. Power						
lines cut from the panels inside the concrete structure on						
LS.4/20/2015 Same as last inspection.6/23/2014 Same as last						
inspection.12/17/2013 Same as last inspection.7/18/2013 Same as						
last inspection.10/30/2012 No access to inspect slide gate on LS.						
Roof of pumping house deteriorating and debris scattered on LS. WS						
crossing not found. This crossing was listed in the USACE Periodic						
Inspection as ID# USACE_CESPK_MA1C_2010_p_345 no issues						
recorded.						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irrigation pipe						
through the levee, approximately 8-10 feet below the crown. Slide gate						
in concrete riser on the landside (LS) slope. Pump house encroaches						
into the LS slope. Two service poles on the LS shoulder. No visible						
appurtenances found on the waterside (WS) toe. Power source cut on						
the LS. (Automatic Board Order (ABO) issued as Permit No. 9466,						
1974 - Roman Catholic Bishop of Sacramento). [Additional						
Reference(s): DWR Levee Log, 1992].						
FS Date: 5/23/2017 10:31:07 AM						

Photo 3 of 3 : UCIP_FA_2018_51879_70218.jpg



View of pump and standpipe located on LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.09	Rating **	M	Issue No.	664	
LM End	10.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.328121 °		39.328121 °
				-122.029262 °		-122.029262 °
DWR ID	17656					
Comment Code						
Inspector Comment						
FS_ID:51880						
DS_ID:17656						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: 5/3/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate.4/20/2015 Unable to locate.6/23/2014 Unable to locate.7/18/2013 Same as last inspection. Unable to locate.						
FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee at an unknown depth below the crown. Automatic drainage gate on the outlet end of the pipe. (USACE, 1955). [Additional Reference(s): USACE Sacramento O&M Manual 137, August 1955, (Station 538+42)].						
FS Date: 5/23/2017 10:31:53 AM						

No Photos

LM Start	10.09	Rating **	M	Issue No.	665	
LM End	10.09	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.328121 °		39.328121 °
				-122.029262 °		-122.029262 °
DWR ID	17655					
Comment Code						
Inspector Comment						
FS_ID:51881 DS_ID:17655 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 5/3/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/24/2016 Unable to locate.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate.4/20/2015 Unable to locate.6/23/2014 Unable to locate.12/17/2013 Unable to locate.7/18/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee at an unknown depth below the crown. Slide gate on the outlet end of the pipe. [Additional Reference(s): USACE Sacramento O&M Manual 137, August 1955, (Station 538+42)]. FS Date: 5/23/2017 10:32:43 AM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.13	Rating **	M	Issue No.	18
LM End	10.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.328697 °	39.328697 °
				-122.029262 °	-122.029262 °
DWR ID	DWR_MA0001_01_s_2012_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion site.					

Photo 1 of 1 : FA_2018_MA0001_297_18_20180905_00009.jpg



View of the erosion along the waterside of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.21	Rating **	M	Issue No.	666
LM End	10.21	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.329750 °	39.329750 °
				-122.029602 °	-122.029602 °
DWR ID	16452				

Comment Code

Inspector Comment

FS_ID:53050
DS_ID:16452
EP_NO: 1800
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Runoff erosion near pipe on WS is present. Pipe is in good condition. Need to verify new permit for the pipe. (O.Yakimov - DWR)5/3/2017 Rain run off erosion still present near pipe on WS shoulder. (DWR Sutter Yard- AFreitag)10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present by the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breakers on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho) New pipe visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:15:38 PM

Photo 1 of 3 : UCIP_FA_2018_53050_70236.jpg



Overview of levee crown looking upstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.21	Rating **	M	Issue No.	666 (cont)	
LM End	10.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.329750 °	39.329750 °	
				-122.029602 °	-122.029602 °	
DWR ID	16452					

Comment Code

Inspector Comment

FS_ID:53050
DS_ID:16452
EP_NO: 1800
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Runoff erosion near pipe on WS is present. Pipe is in good condition. Need to verify new permit for the pipe. (O.Yakimov - DWR)5/3/2017 Rain run off erosion still present near pipe on WS shoulder. (DWR Sutter Yard- AFreitag)10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present by the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breakers on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho) New pipe visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:15:38 PM

Photo 2 of 3 : UCIP_FA_2018_53050_70239.jpg



Pumps corresponding to 2-14 inch pipes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.21	Rating **	M	Issue No.	666 (cont)	
LM End	10.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.329750 °	39.329750 °	
				-122.029602 °	-122.029602 °	
DWR ID	16452					

Comment Code

Inspector Comment

FS_ID:53050
DS_ID:16452
EP_NO: 1800
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Runoff erosion near pipe on WS is present. Pipe is in good condition. Need to verify new permit for the pipe. (O.Yakimov - DWR)5/3/2017 Rain run off erosion still present near pipe on WS shoulder. (DWR Sutter Yard- AFreitag)10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present by the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breakers on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho) New pipe visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:15:38 PM

Photo 3 of 3 : UCIP_FA_2018_53050_70238.jpg



WS-2-14 inch pipes parallel catwalk and go through levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.21	Rating **	M	Issue No.	667
LM End	10.21	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.329750 °	39.329750 °	
			-122.029602 °	-122.029602 °	
DWR ID	17571				

Comment Code

Inspector Comment

FS_ID:53051
DS_ID:17571
EP_NO: 1800
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Runoff erosion near pipe on WS is present. Pipe is in good condition. Need to verify new permit for the pipe. (O.Yakimov - DWR)5/3/2017 Rain runoff erosion still present near pipes on WS shoulder. (DWR Sutter Yard- AFreitag)10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present near the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening on WS shoulder near where pipes enter the levee. May just be from rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana)
FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breaker located on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho)
[Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:18:33 PM

LM Start	10.21	Rating **	M	Issue No.	667 (cont)
LM End	10.21	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2018_53051_70228.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 3 : UCIP_FA_2018_53051_70226.jpg



View of catwalk and pump station located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.21	Rating **	M	Issue No.	667 (cont)	
LM End	10.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.329750 °	39.329750 °	
				-122.029602 °	-122.029602 °	
DWR ID	17571					
Comment Code						
Inspector Comment						
FS_ID:53051 DS_ID:17571 EP_NO: 1800 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Runoff erosion near pipe on WS is present. Pipe is in good condition. Need to verify new permit for the pipe. (O.Yakimov - DWR)5/3/2017 Rain runoff erosion still present near pipes on WS shoulder. (DWR Sutter Yard- AFreitag)10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present near the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening on WS shoulder near where pipes enter the levee. May just be from rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana) FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breaker located on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/1/2018 3:18:33 PM						

Photo 3 of 3 : UCIP_FA_2018_53051_70232.jpg



Close-up of catwalk, control panel, and pump station located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	10.32	Rating **	M	Issue No.	636	
LM End	10.32	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			39.331320 °	39.331320 °	
				-122.029932 °	-122.029932 °	
DWR ID	DWR_MA0001_01_f_2014_636					
Comment Code						
PR : Prunings						
Inspector Comment						
Remove prunings from the landside toe.						

Photo 1 of 1 : FA_2018_MA0001_297_636_20180905_00042.jpg



View of the pruning along the landside toe.

LM Start	10.78	Rating **	M	Issue No.	637
LM End	10.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.337523 °	39.337523 °
				-122.032437 °	-122.032437 °
DWR ID	DWR_MA0001_01_f_2014_637				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_637_20180905_00043.jpg



View of the pruning along the landside toe.

LM Start	10.96	Rating **	M	Issue No.	638
LM End	10.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.340217 °	39.340217 °
				-122.032605 °	-122.032605 °
DWR ID	DWR_MA0001_01_f_2014_638				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from the landside toe.					

Photo 1 of 1 : FA_2018_MA0001_297_638_20180905_00044.jpg



View of the pruning along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	12
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.340774 °	39.340774 °
				-122.032872 °	-122.032872 °
DWR ID	DWR_MA0001_01_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.01	Rating **	M	Issue No.	69
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.340803 °	39.340803 °
				-122.032868 °	-122.032868 °
DWR ID	DWR_MA0001_01_s_2018_69				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the landside slope.					

Photo 1 of 1 : FA_2018_MA0001_297_69_20180905_00016.jpg



View of the rodent holes along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	668
LM End	11.01	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.340867 °	39.340867 °
				-122.032932 °	-122.032932 °
DWR ID	16449				
Comment Code					
Inspector Comment					

FS_ID:53053

DS_ID:16449

EP_NO: 187

Repair Type: Non-Urgent

Crossing Status: Found

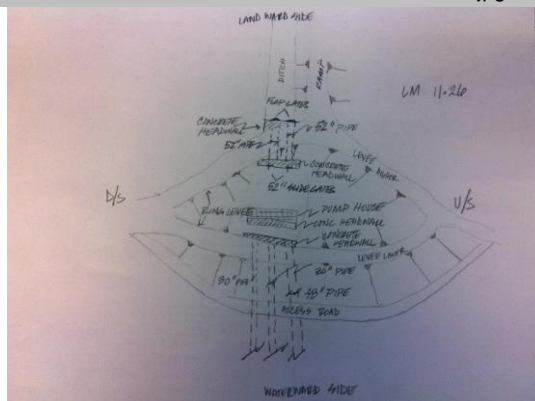
UCIP Comments: 10/1/2018 Pipe closed by steel plate at LS end. Plate is bolted to concrete headwall. CVFPB is working with owner to address issue. (O.Yakimov - DWR)5/3/2017 No changes have been made to this crossing since the NOV was sent out in January 2017. (DWR Sutter Yard- A Freitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner will need to coordinate with CVFPB to remove, replace, or abandon pipe in-place. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)10/24/2016 Appears abandoned. Slide gate needs to be dug out and fully closed to prevent water flow during high water.(DWR Sutter Yard- A Freitag)4/25/2016 Crossing appears to be abandoned.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspections as ID#

USACE_CESPK_MA1C_2010_p_0393 missing gate.

FIELD_STRUCT_DESC: 1 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured, through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both WS and LS. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/1/2018 3:42:41 PM

Photo 1 of 3 : UCIP_FA_2018_53053_70267.jpg



Sketch of structure located at levee mile 11.26.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.01	Rating **	M	Issue No.	668 (cont)
LM End	11.01	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.340867 °	39.340867 °	
			-122.032932 °	-122.032932 °	

DWR ID	16449
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Comment Code

Inspector Comment

FS_ID:53053

DS_ID:16449

EP_NO: 187

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Pipe closed by steel plate at LS end. Plate is bolted to concrete headwall. CVFPB is working with owner to address issue. (O.Yakimov - DWR)5/3/2017 No changes have been made to this crossing since the NOV was sent out in January 2017. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner will need to coordinate with CVFPB to remove, replace, or abandon pipe in-place. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)10/24/2016 Appears abandoned. Slide gate needs to be dug out and fully closed to prevent water flow during high water.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate. FIELD_STRUCT_DESC: 1 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured, through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both WS and LS. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/1/2018 3:42:41 PM

Photo 2 of 3 : UCIP_FA_2018_53053_70265.jpg



View of abandoned structure located on WS (inside ring levee).

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

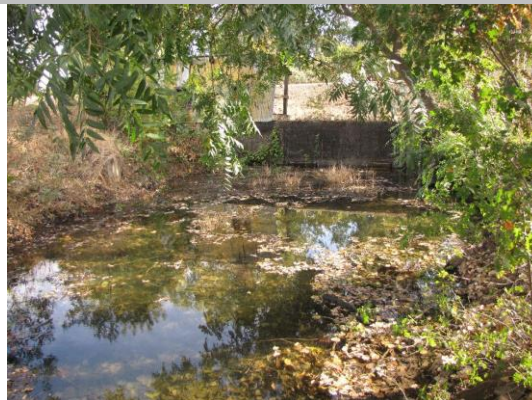
LM Start	11.01	Rating **	M	Issue No.	668 (cont)	
LM End	11.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.340867 °	39.340867 °	
				-122.032932 °	-122.032932 °	
DWR ID	16449					

Comment Code

Inspector Comment

FS_ID:53053
DS_ID:16449
EP_NO: 187
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Pipe closed by steel plate at LS end. Plate is bolted to concrete headwall. CVFPB is working with owner to address issue. (O.Yakimov - DWR)5/3/2017 No changes have been made to this crossing since the NOV was sent out in January 2017. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner will need to coordinate with CVFPB to remove, replace, or abandon pipe in-place. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)10/24/2016 Appears abandoned. Slide gate needs to be dug out and fully closed to prevent water flow during high water.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate.
FIELD_STRUCT_DESC: 1 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured, through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both WS and LS. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:42:41 PM

Photo 3 of 3 : UCIP_FA_2018_53053_70260.jpg



Drain channel inside ring levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.02	Rating **	U	Issue No.	669	
LM End	11.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.340971 °	39.340971 °	
				-122.032957 °	-122.032957 °	
DWR ID	17572					
Comment Code						
Inspector Comment						

FS_ID:53052

DS_ID:17572

EP_NO: 187

Repair Type: Urgent

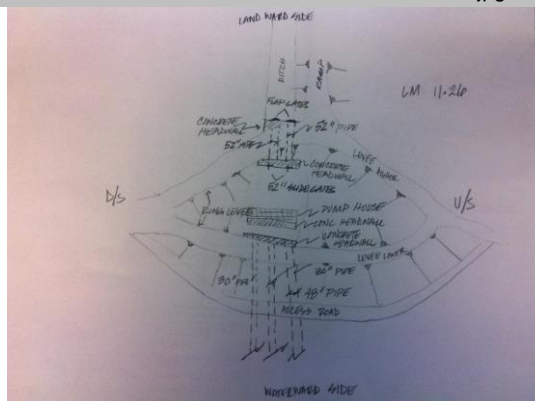
Crossing Status: Found

UCIP Comments: 10/1/2018 Pipe closed by steel plate at LS end. Plate is bolted to concrete headwall. CVFPB is working with owner to address issue. Crossing remains "Urgent" because of missing slide gate on WS. (O.Yakimov - DWR)5/3/2017 No changes have been made at this crossing since the NOV was sent out in January 2017. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner will need to coordinate with CVFPB to remove, replace, or abandon pipe in-place. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)10/24/2016 Appears abandoned. Slide gate needs to be replaced or pipe end capped to prevent water flow during high water. (DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned. Slide gate needs to be replaced or pipe needs to be plugged to prevent water flow during high water season. (DWR Sutter Yard - afreitag)4/21/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Missing positive closure device. Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be abandoned properly. This crossing was listed in the USACE Periodic Inspections as ID#

USACE_CESPK_MA1C_2010_p_0393 missing gate. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured (2012), through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both ends. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:35:20 PM

Photo 1 of 3 : UCIP_FA_2018_53052_70272.jpg



Sketch of structure through levee ring located at levee mile 11.26.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.02	Rating **	U	Issue No.	669 (cont)
LM End	11.02	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.340971 °	39.340971 °
				-122.032957 °	-122.032957 °
DWR ID	17572				

Comment Code

Inspector Comment

FS_ID:53052

DS_ID:17572

EP_NO: 187

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Pipe closed by steel plate at LS end. Plate is bolted to concrete headwall. CVFPB is working with owner to address issue. Crossing remains "Urgent" because of missing slide gate on WS. (O.Yakimov - DWR)5/3/2017 No changes have been made at this crossing since the NOV was sent out in January 2017. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner will need to coordinate with CVFPB to remove, replace, or abandon pipe in-place. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)10/24/2016 Appears abandoned. Slide gate needs to be replaced or pipe end capped to prevent water flow during high water. (DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned. Slide gate needs to be replaced or pipe needs to be plugged to prevent water flow during high water season. (DWR Sutter Yard - afreitag)4/21/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Missing positive closure device. Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be abandoned properly. This crossing was listed in the USACE Periodic Inspections as ID#

USACE_CESPK_MA1C_2010_p_0393 missing gate. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured (2012), through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both ends. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:35:20 PM

Photo 2 of 3 : UCIP_FA_2018_53052_70276.jpg



Abandoned structure (multiple headwalls and pump structure) located near the lower levee (ring levee).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.02	Rating **	U	Issue No.	669 (cont)	
LM End	11.02	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.340971 °	39.340971 °	
				-122.032957 °	-122.032957 °	
DWR ID	17572					

Comment Code

Inspector Comment

FS_ID:53052

DS_ID:17572

EP_NO: 187

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Pipe closed by steel plate at LS end. Plate is bolted to concrete headwall. CVFPB is working with owner to address issue. Crossing remains "Urgent" because of missing slide gate on WS. (O.Yakimov - DWR)5/3/2017 No changes have been made at this crossing since the NOV was sent out in January 2017. (DWR Sutter Yard- AFreitag)01/31/2017 Informal Notice of Violation (NOV) was sent out January 31, 2017 by DWR Flood Maintenance Office--owner will need to coordinate with CVFPB to remove, replace, or abandon pipe in-place. Owner has until Monday February 27th, 2017 to respond to DWR contact: Bryan Reniff. (refer to Official Notice for details). (DWR UCIP - O. Magana)10/24/2016 Appears abandoned. Slide gate needs to be replaced or pipe end capped to prevent water flow during high water. (DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned. Slide gate needs to be replaced or pipe needs to be plugged to prevent water flow during high water season. (DWR Sutter Yard - afreitag)4/21/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Missing positive closure device. Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be abandoned properly. This crossing was listed in the USACE Periodic Inspections as ID#

USACE_CESPK_MA1C_2010_p_0393 missing gate. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured (2012), through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both ends. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 3:35:20 PM

Photo 3 of 3 : UCIP_FA_2018_53052_70275.jpg



WS-Concrete headwall with multiple crossings (2-30 inch pipes and 1-48 inch pipe).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.19	Rating **	U	Issue No.	670
LM End	11.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.343263 °	39.343263 °
				-122.032152 °	-122.032152 °
DWR ID	17691				
Comment Code					
Inspector Comment					
FS_ID:53054 DS_ID:17691 EP_NO: 17471 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Sink hole between CMP risers on WS has grown. Need to contact owner to address issue. Recommend video inspection. (O.Yakimov - DWR)5/3/2017 Sink hole still present between the WS risers. It does not appears to be getting worse. Pumps were running during site visit but the sink hole was dry this time. (DWR Sutter Yard- AFreitag)10/24/2016 Sinkhole still present.(DWR Sutter Yard- AFreitag)4/25/2016 Sink hole between the standpipes seems to be getting worse. Measurements of the hole are 3' wide x 3' long x 3' deep. The pipe was flowing water and there was water present in the bottom of the sink hole. (DWR Sutter Yard - afreitag)4/21/2015 Sink hole still present between risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was present in the bottom of the sinkhole. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible sinkhole between access gate structures. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 1 of 2: 24-inch high-density polyethylene (HDPE) irrigation pipe to be connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of the Sacramento River. (Permit 17471, 2002 - Maxwell Irrigation District). FS Date: 10/1/2018 3:53:48 PM					

Photo 1 of 3 : UCIP_FA_2018_53054_78258.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.19	Rating **	U	Issue No.	670 (cont)	
LM End	11.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.343263 °	39.343263 °	
				-122.032152 °	-122.032152 °	
DWR ID	17691					
Comment Code						
Inspector Comment						
FS_ID:53054 DS_ID:17691 EP_NO: 17471 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Sink hole between CMP risers on WS has grown. Need to contact owner to address issue. Recommend video inspection. (O.Yakimov - DWR)5/3/2017 Sink hole still present between the WS risers. It does not appears to be getting worse. Pumps were running during site visit but the sink hole was dry this time. (DWR Sutter Yard- AFreitag)10/24/2016 Sinkhole still present.(DWR Sutter Yard- AFreitag)4/25/2016 Sink hole between the standpipes seems to be getting worse. Measurements of the hole are 3' wide x 3' long x 3' deep. The pipe was flowing water and there was water present in the bottom of the sink hole. (DWR Sutter Yard - afreitag)4/21/2015 Sink hole still present between risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was present in the bottom of the sinkhole. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible sinkhole between access gate structures. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 1 of 2: 24-inch high-density polyethylene (HDPE) irrigation pipe to be connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of the Sacramento River. (Permit 17471, 2002 - Maxwell Irrigation District). FS Date: 10/1/2018 3:53:48 PM						

Photo 2 of 3 : UCIP_FA_2018_53054_70326.jpg



View of concrete distribution box located on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.19	Rating **	U	Issue No.	670 (cont)	
LM End	11.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.343263 °	39.343263 °	
				-122.032152 °	-122.032152 °	
DWR ID	17691					
Comment Code						
Inspector Comment						
FS_ID:53054 DS_ID:17691 EP_NO: 17471 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Sink hole between CMP risers on WS has grown. Need to contact owner to address issue. Recommend video inspection. (O.Yakimov - DWR)5/3/2017 Sink hole still present between the WS risers. It does not appears to be getting worse. Pumps were running during site visit but the sink hole was dry this time. (DWR Sutter Yard- AFreitag)10/24/2016 Sinkhole still present.(DWR Sutter Yard- AFreitag)4/25/2016 Sink hole between the standpipes seems to be getting worse. Measurements of the hole are 3' wide x 3' long x 3' deep. The pipe was flowing water and there was water present in the bottom of the sink hole. (DWR Sutter Yard - afreitag)4/21/2015 Sink hole still present between risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was present in the bottom of the sinkhole. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible sinkhole between access gate structures. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 1 of 2: 24-inch high-density polyethylene (HDPE) irrigation pipe to be connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of the Sacramento River. (Permit 17471, 2002 - Maxwell Irrigation District). FS Date: 10/1/2018 3:53:48 PM						

Photo 3 of 3 : UCIP_FA_2018_53054_70330.jpg



CMP risers located on WS berm. 18-inch pipe corresponds to downstream riser with slide gate. 24-inch pipe corresponds to upstream riser with slide gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.19	Rating **	U	Issue No.	671
LM End	11.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.343283 °	39.343283 °
				-122.032145 °	-122.032145 °
DWR ID	17624				

Comment Code

Inspector Comment

FS_ID:53056

DS_ID:17624

EP_NO: 17471

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Sink hole between CMP risers on WS has grown. Need to contact owner to address issue. Recommend video inspection. (O.Yakimov - DWR)5/3/2017 Sink hole still present between the WS risers. It does not appears to be getting worse.

Pumps were running during site visit but the sink hole was dry this time.

(DWR Sutter Yard- AFreitag)10/24/2016 Sinkhole still present.(DWR

Sutter Yard- AFreitag)4/25/2016 Sink hole between risers was getting

worse (3' wide x 3' long x 3' deep). New smaller sink hole is appearing

on the upstream side of this stand pipe (4.5" wide x 20" deep). (DWR

Sutter Yard - afreitag)4/21/2015 Sink hole still present between

risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was

present in the bottom of the sinkhole. (DWR Sutter Yard -

afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard -

afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard -

afreitag)10/30/2012 Erosion between risers with slide gates located on

waterward side; This crossing was listed in the USACE Periodic

Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible

sinkhole between access gate structures. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 18-inch high-density polyethylene

(HDPE) irrigation pipe connected to the existing corrugated metal pipe

(CMP) riser within the waterside (WS) and parallel to the right (west)

bank levee of the Sacramento River. Pipe depth through the levee

unknown. Pump station is located approximately 450 feet upstream of

crossing. (Permit 17471, 2002 - Maxwell Irrigation District)

FS Date: 10/1/2018 3:58:00 PM

Photo 1 of 3 : UCIP_FA_2018_53056_78261.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.19	Rating **	U	Issue No.	671 (cont)	
LM End	11.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.343283 °	39.343283 °	
				-122.032145 °	-122.032145 °	
DWR ID	17624					

Comment Code

Inspector Comment

FS_ID:53056

DS_ID:17624

EP_NO: 17471

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Sink hole between CMP risers on WS has grown. Need to contact owner to address issue. Recommend video inspection. (O.Yakimov - DWR)5/3/2017 Sink hole still present between the WS risers. It does not appears to be getting worse.

Pumps were running during site visit but the sink hole was dry this time.

(DWR Sutter Yard- AFreitag)10/24/2016 Sinkhole still present.(DWR

Sutter Yard- AFreitag)4/25/2016 Sink hole between risers was getting

worse (3' wide x 3' long x 3' deep). New smaller sink hole is appearing

on the upstream side of this stand pipe (4.5" wide x 20" deep). (DWR

Sutter Yard - afreitag)4/21/2015 Sink hole still present between

risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was

present in the bottom of the sinkhole. (DWR Sutter Yard -

afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard -

afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard -

afreitag)10/30/2012 Erosion between risers with slide gates located on

waterward side; This crossing was listed in the USACE Periodic

Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible

sinkhole between access gate structures. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 18-inch high-density polyethylene

(HDPE) irrigation pipe connected to the existing corrugated metal pipe

(CMP) riser within the waterside (WS) and parallel to the right (west)

bank levee of the Sacramento River. Pipe depth through the levee

unknown. Pump station is located approximately 450 feet upstream of

crossing. (Permit 17471, 2002 - Maxwell Irrigation District)

FS Date: 10/1/2018 3:58:00 PM

Photo 2 of 3 : UCIP_FA_2018_53056_70324.jpg



View of concrete distribution box located on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.19	Rating **	U	Issue No.	671 (cont)
LM End	11.19	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.343283 °	39.343283 °
				-122.032145 °	-122.032145 °
DWR ID	17624				

Comment Code

Inspector Comment

FS_ID:53056

DS_ID:17624

EP_NO: 17471

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Sink hole between CMP risers on WS has grown. Need to contact owner to address issue. Recommend video inspection. (O.Yakimov - DWR)5/3/2017 Sink hole still present between the WS risers. It does not appears to be getting worse.

Pumps were running during site visit but the sink hole was dry this time.

(DWR Sutter Yard- AFreitag)10/24/2016 Sinkhole still present.(DWR

Sutter Yard- AFreitag)4/25/2016 Sink hole between risers was getting

worse (3' wide x 3' long x 3' deep). New smaller sink hole is appearing

on the upstream side of this stand pipe (4.5" wide x 20" deep). (DWR

Sutter Yard - afreitag)4/21/2015 Sink hole still present between

risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was

present in the bottom of the sinkhole. (DWR Sutter Yard -

afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard -

afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard -

afreitag)10/30/2012 Erosion between risers with slide gates located on

waterward side; This crossing was listed in the USACE Periodic

Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible

sinkhole between access gate structures. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 18-inch high-density polyethylene

(HDPE) irrigation pipe connected to the existing corrugated metal pipe

(CMP) riser within the waterside (WS) and parallel to the right (west)

bank levee of the Sacramento River. Pipe depth through the levee

unknown. Pump station is located approximately 450 feet upstream of

crossing. (Permit 17471, 2002 - Maxwell Irrigation District)

FS Date: 10/1/2018 3:58:00 PM

Photo 3 of 3 : UCIP_FA_2018_53056_70323.jpg



View of CMP risers located on WS berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.21	Rating **	M	Issue No.	27
LM End	11.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.343542 °	39.347185 °
				-122.032107 °	-122.031525 °
DWR ID	DWR_MA0001_01_s_2012_27				
Comment Code					
DT : Ditch					
Inspector Comment					

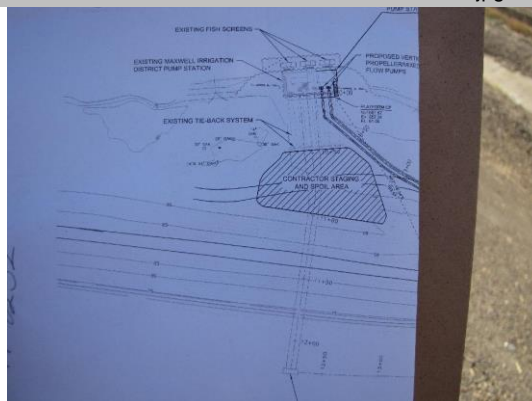
Photo 1 of 1 : FA_2018_MA0001_297_27_20180905_00013.jpg



View of the ag. ditch along the landside toe.

LM Start	11.27	Rating **	M	Issue No.	672	
LM End	11.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.344400 °	39.344400 °	
				-122.031785 °	-122.031785 °	
DWR ID	20584					
Comment Code						
Inspector Comment						
FS_ID:51900 DS_ID:20584 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/24/2016 appears to be in good condition.(DWR Sutter Yard- A Freitag)4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit for this crossing. FIELD_STRUCT_DESC: [Maxwell Irrigation District] 3 of 3: 24-inch steel irrigation pipe through the levee at an unknown depth below the crown. Crossing is tied to existing Maxwell Irrigation District Pump Station located on the waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/23/2017 11:47:50 AM						

Photo 1 of 3 : UCIP_FA_2018_51900_70342.jpg



Drawing of existing Maxwell Irrigation District Conveyance Pipeline
(DWG available through Permit No. 17471 for work located at LM 11.51).

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.27	Rating **	M	Issue No.	672 (cont)	
LM End	11.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.344400 °	39.344400 °	
				-122.031785 °	-122.031785 °	
DWR ID	20584					
Comment Code						
Inspector Comment						
FS_ID:51900 DS_ID:20584 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)10/24/2016 appears to be in good condition.(DWR Sutter Yard- A Freitag)4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit for this crossing. FIELD_STRUCT_DESC: [Maxwell Irrigation District] 3 of 3: 24-inch steel irrigation pipe through the levee at an unknown depth below the crown. Crossing is tied to existing Maxwell Irrigation District Pump Station located on the waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012. FS Date: 5/23/2017 11:47:50 AM						

Photo 2 of 3 : UCIP_FA_2018_51900_70343.jpg



Maxwell Irrigation District Pump Station located on WS.

LM Start	11.27	Rating **	M	Issue No.	672 (cont)
LM End	11.27	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2018_51900_70345.jpg



Maxwell Irrigation District Pump Station located on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	11.74	Rating **	A/W	Issue No.	23
LM End	11.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.351155 °	39.351832 °
				-122.030443 °	-122.030295 °
DWR ID	DWR_MA0001_01_s_2012_23				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	12.06	Rating **	M	Issue No.	673
LM End	12.06	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.355516 °	39.355516 °
				-122.028700 °	-122.028700 °
DWR ID	16457				
Comment Code					
Inspector Comment					
FS_ID:51901 DS_ID:16457 EP_NO: 13449 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 5/3/2017 Unable to locate. (DWR Sutter Yard-AFreitag)10/24/2016 Unable to locate.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate any markers for this crossing.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 According to PG&E, their records indicate that pipe segment has been retired per dwgs. PG&E is finding additional information to confirm if crossing has been retired and method of retirement. Waiting for clarification from PG&E.11/2012 Buried line. No markers found; Need to contact PG&E to determine if crossing is still present. FIELD_STRUCT_DESC: *ABANDONED* 4-inch asphalt coated steel gas pipeline through the levee, 30-inches below the crown. PG&E crossing is known as Reference No. 167-6-13. (Permit No. 13449, 1983 - Pacific Gas and Electric Company [PG&E]) Emergency contact Mr. Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Coordinates are approximate--crossing is abandoned according to PG&E records. [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 11:48:52 AM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	12.06	Rating **	M	Issue No.	4
LM End	13.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.355607 °	39.362600 °
				-122.028707 °	-122.014497 °
DWR ID	DWR_MA0001_01_s_2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					

No Photos

LM Start	12.69	Rating **	M	Issue No.	674	
LM End	12.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.359843 °	39.359843 °	
				-122.019529 °	-122.019529 °	
DWR ID	16445					
Comment Code						
Inspector Comment						
FS_ID:51903 DS_ID:16445 EP_NO: 9462 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- needs to be done properly.(DWR Sutter Yard- AFreitag)10/24/2016 Appears abandoned. LS concrete canal is filled by pipe DSID 16444.4/25/2016 Appears to be an abandoned crossing. WS slide gate still buried and inoperable.4/21/2015 Same as last inspection. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate unoperable-blocked by sediment. LS-flap gate missing. 5-inch pipe goes through 24-inch crossing--unable to determine is authorized. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0435 for smaller pipe running inside existing crossing. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 10 feet below the crown. Slide gate on both waterside (WS) and landside (LS). Gate missing on the LS. (Automatic Board Order (ABO) issued as Permit No. 9462-1974, Thousand Acre Ranch) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 11:50:30 AM						

Photo 1 of 3 : UCIP_FA_2018_51903_70352.jpg



Overview of levee crown looking downstream at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	12.69	Rating **	M	Issue No.	674 (cont)	
LM End	12.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.359843 °	39.359843 °	
				-122.019529 °	-122.019529 °	
DWR ID	16445					
Comment Code						
Inspector Comment						
FS_ID:51903 DS_ID:16445 EP_NO: 9462 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Appears abandoned- needs to be done properly.(DWR Sutter Yard- AFreitag)10/24/2016 Appears abandoned. LS concrete canal is filled by pipe DSID 16444.4/25/2016 Appears to be an abandoned crossing. WS slide gate still buried and inoperable.4/21/2015 Same as last inspection. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate unoperable-blocked by sediment. LS-flap gate missing. 5-inch pipe goes through 24-inch crossing--unable to determine is authorized. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0435 for smaller pipe running inside existing crossing. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 10 feet below the crown. Slide gate on both waterside (WS) and landside (LS). Gate missing on the LS. (Automatic Board Order (ABO) issued as Permit No. 9462-1974, Thousand Acre Ranch) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 11:50:30 AM						

LM Start	12.69	Rating **	M	Issue No.	674 (cont)
LM End	12.69	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2018_51903_70351.jpg



WS concrete structure with slide gate. Gate is blocked by sediment.

Photo 3 of 3 : UCIP_FA_2018_51903_70350.jpg



6-inch irrigation pipe through crossing at LS. Flap gate missing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	13.47	Rating **	U	Issue No.	675
LM End	13.47	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.367643 °	39.367643 °	
			-122.015212 °	-122.015212 °	

DWR ID	16443
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Comment Code

Inspector Comment

FS_ID:53058 DS_ID:16443 EP_NO: 9461 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/1/2018 Backwash erosion from ditch appears to be growing along LS toe. FSRP evaluation is recommended. (O.Yakimov - DWR)5/3/2017 Water was leaking from the LS distribution box during the Jan/Feb 2017 high water event. If this crossing is abandoned then it needs to be so properly. (DWR Sutter Yard- A Freitag)11/01/2016 Erosion/cavity collapse visible on LS toe. Slide gate inside concrete riser located on the WS is in the open position. Need to contact owner to confirm status of crossing and to determine cause of erosion on LS (pipe or concrete box might be leaking). (O. Magana - DWR UCIP)10/24/2016 Appears abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Slide gate in WS box visually appears to be closed as its stem is all the way down. Still cannot look into box to confirm 100% though. (A. Freitag - DWR Sutter Yard)4/21/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)6/23/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/17/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)7/22/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/30/2012 Unable to close positive closure device due to missing ladder-sluce gate inaccessible. Need to determine the condition of the gate. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0453 for an inaccessible gate box with its ladder broken on the waterward side. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 21.5 feet below the crown. Slide gate in concrete box on the waterside (WS) end. Pump on the bank. Tall concrete box located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9461, 1974 - Annie D. Propfe) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 710+82)]. FS Date: 10/1/2018 4:06:00 PM
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Photo 1 of 3 : UCIP_FA_2018_53058_70377.jpg



View of LS looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	13.47	Rating **	U	Issue No.	675 (cont)	
LM End	13.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.367643 °	39.367643 °	
				-122.015212 °	-122.015212 °	
DWR ID	16443					

Comment Code

Inspector Comment

FS_ID:53058

DS_ID:16443

EP_NO: 9461

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/1/2018 Backwash erosion from ditch appears to be growing along LS toe. FSRP evaluation is recommended. (O.Yakimov - DWR)5/3/2017 Water was leaking from the LS distribution box during the Jan/Feb 2017 high water event. If this crossing is abandoned then it needs to be so properly. (DWR Sutter Yard- A Freitag)11/01/2016 Erosion/cavity collapse visible on LS toe. Slide gate inside concrete riser located on the WS is in the open position. Need to contact owner to confirm status of crossing and to determine cause of erosion on LS (pipe or concrete box might be leaking). (O. Magana - DWR UCIP)10/24/2016 Appears abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Slide gate in WS box visually appears to be closed as its stem is all the way down. Still cannot look into box to confirm 100% though. (A. Freitag - DWR Sutter Yard)4/21/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)6/23/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/17/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)7/22/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/30/2012 Unable to close positive closure device due to missing ladder-sluce gate inaccessible. Need to determine the condition of the gate. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0453 for an inaccessible gate box with its ladder broken on the waterward side. (O. Magana - DWR UCIP)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 21.5 feet below the crown. Slide gate in concrete box on the waterside (WS) end. Pump on the bank. Tall concrete box located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9461, 1974 - Annie D. Propfe) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 710+82)].

FS Date: 10/1/2018 4:06:00 PM

Photo 2 of 3 : UCIP_FA_2018_53058_70376.jpg



View of WS at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	13.47	Rating **	U	Issue No.	675 (cont)	
LM End	13.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.367643 °	39.367643 °	
				-122.015212 °	-122.015212 °	
DWR ID	16443					
Comment Code						

Comment Code

Inspector Comment

FS_ID:53058
DS_ID:16443
EP_NO: 9461
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 Backwash erosion from ditch appears to be growing along LS toe. FSRP evaluation is recommended. (O.Yakimov - DWR)5/3/2017 Water was leaking from the LS distribution box during the Jan/Feb 2017 high water event. If this crossing is abandoned then it needs to be so properly. (DWR Sutter Yard- A Freitag)11/01/2016 Erosion/cavity collapse visible on LS toe. Slide gate inside concrete riser located on the WS is in the open position. Need to contact owner to confirm status of crossing and to determine cause of erosion on LS (pipe or concrete box might be leaking). (O. Magana - DWR UCIP)10/24/2016 Appears abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Slide gate in WS box visually appears to be closed as its stem is all the way down. Still cannot look into box to confirm 100% though. (A. Freitag - DWR Sutter Yard)4/21/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)6/23/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/17/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)7/22/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/30/2012 Unable to close positive closure device due to missing ladder-sluce gate inaccessible. Need to determine the condition of the gate. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0453 for an inaccessible gate box with its ladder broken on the waterward side. (O. Magana - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 21.5 feet below the crown. Slide gate in concrete box on the waterside (WS) end. Pump on the bank. Tall concrete box located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9461, 1974 - Annie D. Propfe) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 710+82)].
FS Date: 10/1/2018 4:06:00 PM

Photo 3 of 3 : UCIP_FA_2018_53058_70375.jpg



Concrete distribution box located on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	13.48	Rating **	M	Issue No.	126
LM End	13.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.367832 °	39.367832 °
				-122.015130 °	-122.015130 °
DWR ID	DWR_MA0001_01_f_2016_126				
Comment Code					
EQ : Equipment					
Inspector Comment					
Shipping container stored on landside toe.					

Photo 1 of 1 : FA_2018_MA0001_297_126_20180905_00036.jpg



View of a shipping container along the landside toe.

LM Start	13.79	Rating **	M	Issue No.	676	
LM End	13.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.371934 °	39.371934 °	
				-122.012945 °	-122.012945 °	
DWR ID	16442					
Comment Code						
Inspector Comment						
FS_ID:51910 DS_ID:16442 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing4/21/2015 Slide gate is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate is buried-non-fuctional. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0457 for buried slide gate. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee at approximately 15-18 feet below the crown. Slide gate on the waterside (WS) end. (Davis Ranches) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 12:02:52 PM						

Photo 1 of 2 : UCIP_FA_2018_51910_70379.jpg



Overview of levee crown looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	13.79	Rating **	M	Issue No.	676 (cont)	
LM End	13.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.371934 °	39.371934 °	
				-122.012945 °	-122.012945 °	
DWR ID	16442					
Comment Code						
Inspector Comment						
FS_ID:51910 DS_ID:16442 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 Abandoned.(DWR Sutter Yard- A Freitag)4/25/2016 Abandoned crossing4/21/2015 Slide gate is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate is buried-non-fuctional. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0457 for buried slide gate. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee at approximately 15-18 feet below the crown. Slide gate on the waterside (WS) end. (Davis Ranches) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 12:02:52 PM						

Photo 2 of 2 : UCIP_FA_2018_51910_70380.jpg



WS-Slide gate buried-non-functional.

LM Start	14.25	Rating **	U	Issue No.	128
LM End	14.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.378129 °	39.378800 °
				-122.013040 °	-122.013360 °
DWR ID	DWR_MA0001_01_f_2016_128				
Comment Code					
PI : Pipe					
Inspector Comment					
Concrete pipe runs along the landside toe and concrete box at the end.					

Photo 1 of 1 : FA_2018_MA0001_297_128_20180905_00037.jpg



View of a concrete pipe that runs along the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	14.28	Rating **	U	Issue No.	677
LM End	14.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378568 °	39.378568 °
				-122.013262 °	-122.013262 °
DWR ID	16441				

Comment Code

Inspector Comment

FS_ID:53059
DS_ID:16441
EP_NO: 9460
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 A gap visible between pipe end in concrete box on LS and flap gate. Pipe might be partially silted that blocks flap gate from closing properly. Needs proper abandonment if not in use. Open conduit allows for flooding during high water events. (O.Yakimov - DWR)5/3/2017 Water leaked through this crossing during the Jan/Feb 2017 high water event. A concrete pipe of unknown diameter exits the LS distribution box and follows the levee alignment downstream about 120ft and uncontrolled water flowed from that pipe end. If crossing is abandoned then it needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 This entire crossing now appears to be abandoned. The pvc pipe that was previously connected to the LS well pump is no longer connected and used to fill the box.(DWR Sutter Yard- A Freitag)4/25/2016 WS concrete box appears to be abandoned. LS box appears to get filled by a well pump on LS.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine if crossing is still being used there are some abandoned features that remain at this crossing-- crossing has been modified. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0464 for abandoned pump station.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, at an unknown depth below the crown. Gate valve on the waterside (WS) end. Pump house on the WS berm. Concrete distribution box and flap gate at the landside (LS) toe. Inspector noted in 2016 that this structure appears to be partially abandoned concrete box appears to be in use. LS box appears to get filled by a well pump located on the LS and water distributed. (Automatic Board Order (ABO) issued as Permit No. 9460, 1974 - Morici Corporation) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 4:13:44 PM

Photo 1 of 3 : UCIP_FA_2018_53059_78266.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	14.28	Rating **	U	Issue No.	677 (cont)
LM End	14.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378568 °	39.378568 °
				-122.013262 °	-122.013262 °
DWR ID	16441				

Comment Code

Inspector Comment

FS_ID:53059
DS_ID:16441
EP_NO: 9460
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/1/2018 A gap visible between pipe end in concrete box on LS and flap gate. Pipe might be partially silted that blocks flap gate from closing properly. Needs proper abandonment if not in use. Open conduit allows for flooding during high water events. (O.Yakimov - DWR)5/3/2017 Water leaked through this crossing during the Jan/Feb 2017 high water event. A concrete pipe of unknown diameter exits the LS distribution box and follows the levee alignment downstream about 120ft and uncontrolled water flowed from that pipe end. If crossing is abandoned then it needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 This entire crossing now appears to be abandoned. The pvc pipe that was previously connected to the LS well pump is no longer connected and used to fill the box.(DWR Sutter Yard- A Freitag)4/25/2016 WS concrete box appears to be abandoned. LS box appears to get filled by a well pump on LS.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine if crossing is still being used there are some abandoned features that remain at this crossing-- crossing has been modified. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0464 for abandoned pump station.
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, at an unknown depth below the crown. Gate valve on the waterside (WS) end. Pump house on the WS berm. Concrete distribution box and flap gate at the landside (LS) toe. Inspector noted in 2016 that this structure appears to be partially abandoned concrete box appears to be in use. LS box appears to get filled by a well pump located on the LS and water distributed. (Automatic Board Order (ABO) issued as Permit No. 9460, 1974 - Morici Corporation) [Additional Reference(s): DWR Levee Log, 1992].
FS Date: 10/1/2018 4:13:44 PM

Photo 2 of 3 : UCIP_FA_2018_53059_70382.jpg



Concrete distribution box located on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	14.28	Rating **	U	Issue No.	677 (cont)
LM End	14.28	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.378568 °	39.378568 °	
			-122.013262 °	-122.013262 °	

DWR ID	16441
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Comment Code

Inspector Comment

FS_ID:53059
DS_ID:16441
EP_NO: 9460
Repair Type: Urgent
Crossing Status: Found

UCIP Comments: 10/1/2018 A gap visible between pipe end in concrete box on LS and flap gate. Pipe might be partially silted that blocks flap gate from closing properly. Needs proper abandonment if not in use. Open conduit allows for flooding during high water events. (O.Yakimov - DWR)5/3/2017 Water leaked through this crossing during the Jan/Feb 2017 high water event. A concrete pipe of unknown diameter exits the LS distribution box and follows the levee alignment downstream about 120ft and uncontrolled water flowed from that pipe end. If crossing is abandoned then it needs to be done so properly. (DWR Sutter Yard- A Freitag)10/24/2016 This entire crossing now appears to be abandoned. The pvc pipe that was previously connected to the LS well pump is no longer connected and used to fill the box.(DWR Sutter Yard- A Freitag)4/25/2016 WS concrete box appears to be abandoned. LS box appears to get filled by a well pump on LS.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine if crossing is still being used there are some abandoned features that remain at this crossing-- crossing has been modified. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0464 for abandoned pump station.

FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, at an unknown depth below the crown. Gate valve on the waterside (WS) end. Pump house on the WS berm. Concrete distribution box and flap gate at the landside (LS) toe. Inspector noted in 2016 that this structure appears to be partially abandoned concrete box appears to be in use. LS box appears to get filled by a well pump located on the LS and water distributed. (Automatic Board Order (ABO) issued as Permit No. 9460, 1974 - Morici Corporation) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/1/2018 4:13:44 PM

Photo 3 of 3 : UCIP_FA_2018_53059_70381.jpg



Inside view of concrete distribution box located on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	15.79	Rating **	U	Issue No.	85
LM End	15.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.399929 °	39.399929 °
				-122.010028 °	-122.010028 °
DWR ID	DWR_MA0001_01_s_2016_85				
Comment Code					
DE : Debris					
Inspector Comment					
prunings, concrete and tires.					

Photo 1 of 1 : FA_2018_MA0001_297_85_20180905_00020.jpg



View of prunings, concrete, and tires along the toe.

LM Start	15.84	Rating **	U	Issue No.	86
LM End	15.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.400601 °	39.401365 °
				-122.009889 °	-122.009374 °
DWR ID	DWR_MA0001_01_s_2016_86				
Comment Code					
BU : Building					
Inspector Comment					
Mobile homes and trailers.					

Photo 1 of 1 : FA_2018_MA0001_297_86_20180905_00021.jpg



View of the mobile homes and trailers along the landside toe.

LM Start	15.86	Rating **	N	Issue No.	131
LM End	15.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.400875 °	39.400875 °
				-122.009680 °	-122.009680 °
DWR ID	DWR_MA0001_01_f_2016_131				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
About 7 stumps on the landside.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	15.95	Rating **	U	Issue No.	87
LM End	15.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.401994 °	39.401994 °
				-122.009352 °	-122.009352 °
DWR ID	DWR_MA0001_01_s_2016_87				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_87_20180905_00022.jpg



View of a shed along the landside toe.

LM Start	16.00	Rating **	U	Issue No.	89
LM End	16.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.402756 °	39.403040 °
				-122.009261 °	-122.009186 °
DWR ID	DWR_MA0001_01_s_2016_89				
Comment Code					
BU : Building					
Inspector Comment					
Red house and metal fence.					

Photo 1 of 1 : FA_2018_MA0001_297_89_20180905_00023.jpg



Corrugated metal fence obstructing visibility and access

LM Start	16.03	Rating **	U	Issue No.	90
LM End	16.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.403206 °	39.403206 °
				-122.009116 °	-122.009116 °
DWR ID	DWR_MA0001_01_s_2016_90				
Comment Code					
BU : Building					
Inspector Comment					
metal sided building					

Photo 1 of 1 : FA_2018_MA0001_297_90_20180905_00024.jpg



View of a corrugated metal building obstructing visibility and access.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.06	Rating **	U	Issue No.	91
LM End	16.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.403565 °	39.403565 °
				-122.009039 °	-122.009039 °
DWR ID	DWR_MA0001_01_s_2016_91				
Comment Code					
BU : Building					
Inspector Comment					
long, white metal building with several AC units					

Photo 1 of 1 : FA_2018_MA0001_297_91_20180905_00025.jpg



View of a building obstructing access.

LM Start	16.08	Rating **	U	Issue No.	14
LM End	16.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.403930 °	39.403930 °
				-122.008925 °	-122.008925 °
DWR ID	DWR_MA0001_01_s_2012_14				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_14_20180905_00008.jpg



View of the building on the waterside slope.

LM Start	16.10	Rating **	U	Issue No.	26
LM End	16.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.404135 °	39.404135 °
				-122.008797 °	-122.008797 °
DWR ID	DWR_MA0001_01_s_2012_26				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_26_20180905_00012.jpg



View of the building on the landside slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain


+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

Photo 1 of 1 : FA_2018_MA0001_297_74_20180905_00017.jpg



03/13/2015

View of the landscape along the landside slope and toe.

Photo 1 of 1 : FA_2018_MA0001_297_133_20180905_00039.jpg



View of firewood and containers along the landside toe.

Photo 1 of 1 : FA_2018_MA0001_297_71_20181005_00153.jpg



View of the rodent holes along the landside slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.26	Rating **	M	Issue No.	134
LM End	16.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.406520 °	39.406520 °
				-122.008635 °	-122.008635 °
DWR ID	DWR_MA0001_01_f_2016_134				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_134_20180905_00040.jpg



View of cactus and fruit trees along the landside toe blocking visibility.

LM Start	16.30	Rating **	M	Issue No.	15
LM End	16.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.407066 °	39.407363 °
				-122.008730 °	-122.008780 °
DWR ID	DWR_MA0001_01_s_2012_15				
Comment Code					
BU : Building					
Inspector Comment					

No Photos

LM Start	16.31	Rating **	U	Issue No.	46
LM End	16.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.407225 °	39.407545 °
				-122.008570 °	-122.008640 °
DWR ID	DWR_MA0001_01_s_2012_46				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_46_20180905_00014.jpg



View of the building along the landside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.34	Rating **	U	Issue No.	47
LM End	16.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.407670 °	39.407823 °
				-122.008685 °	-122.008740 °
DWR ID	DWR_MA0001_01_s_2012_47				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2018_MA0001_297_47_20180905_00015.jpg



View of the fence along the landside toe.

LM Start	16.35	Rating **	A/W	Issue No.	9
LM End	16.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.407837 °	39.411111 °
				-122.008763 °	-122.009238 °
DWR ID	DWR_ST0010_02_f_2022_7				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 164.3 R					
Status: Eroding					
2017 Field Notes: New erosion along entire site.					
Site History: Erosion site added in 1997 and removed in 2005. 2009 -					
Site added back in, hard toe with slow moving erosion. Potential					
geotechnical failure. 2011 - Site extended downstream.					

Photo 1 of 2 : FA_2018_MA0001_297_9_20180905_00006.jpg



USACE 2013 Photo #1

LM Start	16.35	Rating **	A/W	Issue No.	9 (cont)
LM End	16.58	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_MA0001_297_9_20180905_00007.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.37	Rating **	M	Issue No.	135
LM End	16.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.408073 °	39.408073 °
				-122.009058 °	-122.009058 °
DWR ID	DWR_MA0001_01_f_2016_135				
Comment Code					
EQ : Equipment					
Inspector Comment					
Debris, metal, and firewood on the landside toe.					

Photo 1 of 1 : FA_2018_MA0001_297_135_20180905_00041.jpg



View of metal sheets along the levee slope and debris and firewood along the landside toe.

LM Start	16.49	Rating **	M	Issue No.	678	
LM End	16.49	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.409758 °	39.409758 °	
				-122.009562 °	-122.009562 °	
DWR ID	16438					
Comment Code						
Inspector Comment						
FS_ID:51915 DS_ID:16438 EP_NO: 2189 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 Needs new markers if line is still active. (DWR Sutter Yard- AFreitag)10/24/2016 Abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Abandoned pipes.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed. Also need to determine additional details--depth and alignment.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 Crossing is an active line. Waiting for additional information from PG&E.11/2012 Buried line--no markers visible. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing. FIELD_STRUCT_DESC: 2-inch gas line along landside (LS) toe from 12-inch gas line at levee mile 16.85 to the Princeton Rice Dryer. 2-inch pipeline installed longitudinally on the levee parallel to highway (HWY) 45 in a northerly direction from the point where the 2-10-inch pipes were installed in the levee. Emergency contact Mr. Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. (Permit No. 2189, 1958 - Pacific Gas & Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 1:44:30 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.55	Rating **	M	Issue No.	679	
LM End	16.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.410645 °	39.410645 °	
				-122.009705 °	-122.009705 °	
DWR ID	16448					
Comment Code						
Inspector Comment						
FS_ID:51916 DS_ID:16448 EP_NO: 14424 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 WS sign still knocked over- needs to be replaced. (DWR Sutter Yard- A Freitag)10/24/2016 WS marker sign still knocked over.(DWR Sutter Yard- A Freitag)4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection7/22/2013 Same as last inspection.12/2012 Waiting for information regarding crossing from PG&E. Regarding damage warning sign--PG&E has initiated a project to replace pipeline crossing sign and utility markers, as required by DOT codes/regulations.11/2012 Utility warning sign damaged. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing. FIELD_STRUCT_DESC: 12-inch gas pipe through the levee, 30-inches below the crown. This 12-inch replacement pipe was installed by horizontally directionally drilling under the State HWY. Crossing is cathodically protected against external corrosion. Line was bored with a minimum cover of 48 feet under the right bank levee, 60 feet under the right bank, 25 feet under the channel and 52 feet under the left bank. Emergency contact: Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. This pipe is under pressure and cathodic protection (CP) readings are taken on a regular schedule. (Permit No. 14424, 1988 - Pacific Gas & Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 1:50:01 PM						

Photo 1 of 3 : UCIP_FA_2018_51916_70391.jpg



View just upstream of utility crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.55	Rating **	M	Issue No.	679 (cont)	
LM End	16.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.410645 °	39.410645 °	
				-122.009705 °	-122.009705 °	
DWR ID	16448					
Comment Code						
Inspector Comment						
FS_ID:51916 DS_ID:16448 EP_NO: 14424 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 WS sign still knocked over- needs to be replaced. (DWR Sutter Yard- AFreitag)10/24/2016 WS marker sign still knocked over.(DWR Sutter Yard- AFreitag)4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection7/22/2013 Same as last inspection.12/2012 Waiting for information regarding crossing from PG&E. Regarding damage warning sign--PG&E has initiated a project to replace pipeline crossing sign and utility markers, as required by DOT codes/regulations.11/2012 Utility warning sign damaged. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing. FIELD_STRUCT_DESC: 12-inch gas pipe through the levee, 30-inches below the crown. This 12-inch replacement pipe was installed by horizontally directionally drilling under the State HWY. Crossing is cathodically protected against external corrosion. Line was bored with a minimum cover of 48 feet under the right bank levee, 60 feet under the right bank, 25 feet under the channel and 52 feet under the left bank. Emergency contact: Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. This pipe is under pressure and cathodic protection (CP) readings are taken on a regular schedule. (Permit No. 14424, 1988 - Pacific Gas & Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 1:50:01 PM						

Photo 2 of 3 : UCIP_FA_2018_51916_70390.jpg



View of utility marker located on LS across hwy.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	10/04/2018 10/04/2018	Bob Duffey

LM Start	16.55	Rating **	M	Issue No.	679 (cont)	
LM End	16.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.410645 °		39.410645 °
				-122.009705 °		-122.009705 °
DWR ID	16448					
Comment Code						
Inspector Comment						
FS_ID:51916 DS_ID:16448 EP_NO: 14424 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/3/2017 WS sign still knocked over- needs to be replaced. (DWR Sutter Yard- AFreitag)10/24/2016 WS marker sign still knocked over.(DWR Sutter Yard- AFreitag)4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection7/22/2013 Same as last inspection.12/2012 Waiting for information regarding crossing from PG&E. Regarding damage warning sign--PG&E has initiated a project to replace pipeline crossing sign and utility markers, as required by DOT codes/regulations.11/2012 Utility warning sign damaged. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing. FIELD_STRUCT_DESC: 12-inch gas pipe through the levee, 30-inches below the crown. This 12-inch replacement pipe was installed by horizontally directionally drilling under the State HWY. Crossing is cathodically protected against external corrosion. Line was bored with a minimum cover of 48 feet under the right bank levee, 60 feet under the right bank, 25 feet under the channel and 52 feet under the left bank. Emergency contact: Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. This pipe is under pressure and cathodic protection (CP) readings are taken on a regular schedule. (Permit No. 14424, 1988 - Pacific Gas & Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 5/23/2017 1:50:01 PM						

Photo 3 of 3 : UCIP_FA_2018_51916_70395.jpg



View of levee looking downstream at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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